

# Service Manual



PRO-730HD

ORDER NO.  
**ARP3138E**

HDTV PROJECTION MONITOR

# PRO-730HD

## PRO-630HD

## PRO-530HD

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
PRO-730HD	KUXC/CA	AC120V	
PRO-630HD	KUXC/CA	AC120V	
PRO-530HD	KUXC/CA	AC120V	

This service manual should be used together with the following manual(s).

Model No.	Order No.	Remarks
PRO-730HD, PRO-630HD, PRO-530HD	ARP3139	ADJUSTMENT, DIAGNOSIS, IC, EXPLANATION, PANEL FACILITIES etc.



For details, refer to "Important symbols for good services".

# SAFETY INFORMATION



**This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.**

**Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.**

## WARNING

**This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.**

**Health & Safety Code Section 25249.6 - Proposition 65**

## NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

## REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

## 1. SAFETY PRECAUTIONS

**NOTICE :** Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis or picture tube.

The following precautions should be observed :

1. Do not install, remove, or handle the picture tube in any manner unless shatterproof goggles are worn.  
People not so equipped should be kept away while picture tubes are handled.  
Keep picture tube away from the while handling.
2. When service is required, even though the HDTV PROJECTION MONITOR an isolation transformer should be inserted between power line and the set in safety before any service is performed.
3. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistor-capacitor, etc.
4. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
5. Always use the manufacture's replacement components.  
Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's.  
Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.

6. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing.

Therefore, the following checks should be performed for the continued protection of the customer and service technician.

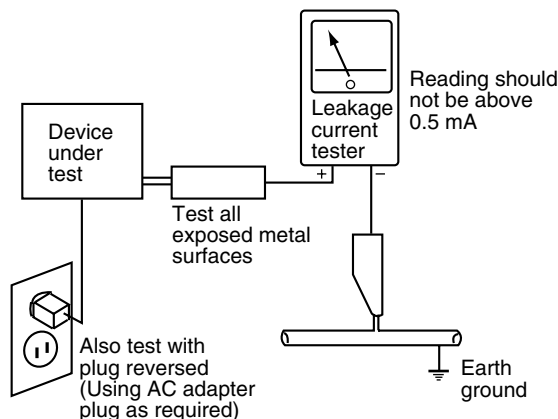
### Leakage Current Cold Check

With the AC plug removed from the 120V AC 60Hz source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis should have a minimum resistor reading of 0.3MΩ and a maximum resistor reading of 5MΩ. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

## Leakage Current Hot Check

Plug the AC line cord directly into a 120V AC 60Hz outlet (do not use an isolation transformer for this check). Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

**ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.**

## High Voltage

This set is provided with a X-ray protection for clearly indicating that voltage has increased in excess of a predetermined value. Comply with all notes described in this Service Manual regarding this hold down circuit when servicing, so that this X-ray protection may correctly be operated.

## Serviceman Warning

In the status of the black picture (video muting is being applied) when no signal is input, high voltage of this set during operation is less than 30.5kV. In case any component having some relation to the high voltage is replaced, confirm that the high voltage is lower than 30.5kV in the status of the black picture when no signal is input.

To measure H. V. use a high impedance H. V. meter. Connect (-) to earth and (+) to the FBT anode cable connector. (Refer to section "7.1.2 DISASSEMBLY".)

## X-radiation

**TUBE :** The primary source of X-radiation in this set is the picture tube.

For continued X-radiation protection, the replacement tube must be the same type as the original, PIONEER approved type. The picture tube (CRT Service Assy R, G, B) used in this set holds complete guarantee against X-ray radiation when the X-ray is sealed (next page). Accordingly, when the current is flowing to the picture tube (CRT Service Assy R, G, B), be sure to perform it by putting the tube into X-ray sealed applied state. Avoid absolutely to flow the current to the picture tube (CRT Service Assy R, G, B) itself. Moreover, when the voltage of the high voltage circuit becomes abnormally a little higher, the picture tube radiates X-rays. Accordingly, when servicing the high voltage circuit be sure to replace as an assy with the POWER SUPPLY Assy in the manner in which has been adjusted to perform normal operation.

## 1.2 PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual. Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, X-radiation, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

### 3. CHARGED SECTION, HIGH VOLTAGE GENERATING POINT AND X-RAY PROTECTION

#### ■ Charged section

The circuit in which the commercial AC power is used as it is without passing through the power supply transformer. If the charged section is touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. In this case, be sure to connect the set via an insulated transformer and supply the current.

#### ■ Charged section (Power supply primary side)

1. AC Power Cord
2. The primary side of the POWER SUPPLY Assy
3. POWER SW Assy

■ : Part is charged section.

■ : Part is the high voltage generating points other than the charged section.

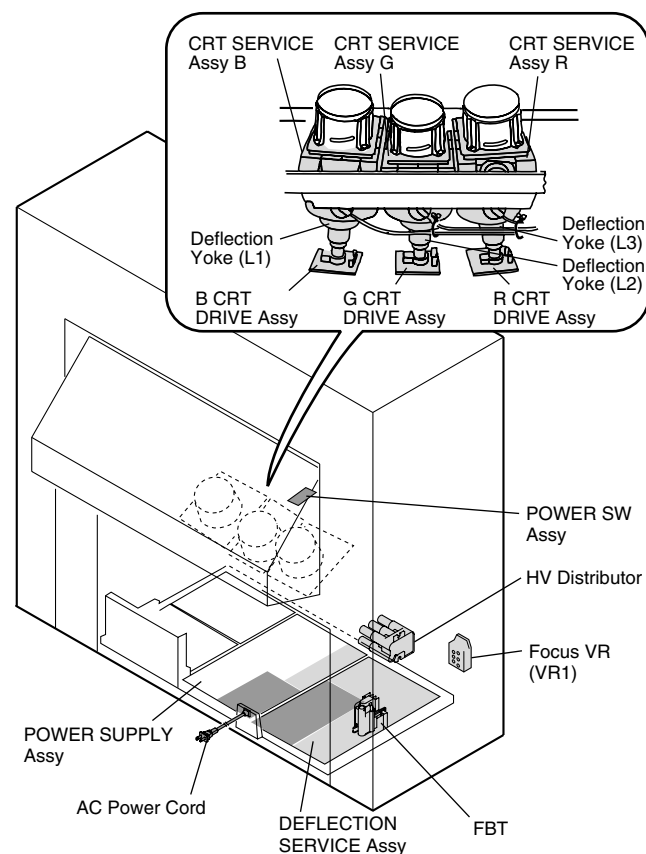


Fig.1 Charged Section and High Voltage Generation Point

#### ■ High Voltage generating point

The place where voltage of over 100V is generated.

1. Charged section
2. DEFLECTION Service Assy  
(including FBT).....(30.5kV, 1.2kV, 210V, 120V)
3. POWER SUPPLY Assy.....(120V)
4. R CRT DRIVE Assy.....(10.5kV, 210V)
5. G CRT DRIVE Assy.....(10.5kV, 210V)
6. B CRT DRIVE Assy.....(10.5kV, 210V)
7. CRT Service Assy R.....(30.5kV)
8. CRT Service Assy G.....(30.5kV)
9. CRT Service Assy B.....(30.5kV)
10. Focus VR (VR1).....(10.5kV)
11. Deflection Yokes (L1, L2 and L3)  
.....Approx. (1100V at peak)
12. HV Distributor(Anode) .....(30.5kV)

#### ■ X-ray protection

- Regarding the parts which are relative to radiation of X-rays (There is the danger to radiate X-ray from the individual CRT Service Assy R, G, B), there are notifications of caution in the individual schematic diagrams. Be sure to read them for safety's sake.
- The component parts for X-ray protection are as follows:  
When the current flows to the CRT Service Assy R, G, B, be sure to perform it with these parts being attached. Protection from the X-ray radiation is maintained in the state in which these parts have been installed to the CRT Service Assy R, G, B. Accordingly, never supply current only to the CRT Service Assy R, G, B.  
Moreover, the anode voltage of the CRT Service Assy R, G, B should always be kept not higher than the predetermined value (in the minimum brightness and picture state when non signal input is less than 30.5kV). Be sure to drive the CRT Service Assy R, G, B by using a completely functional Deflection Service Assy (including FBT) which have been adjusted completely in the combined state. (When the voltage abnormally becomes high, the X-ray protection circuit will operate.)

1. CRT Service Assy R, G, B (Do not dismantle CRT assemblies under any circumstances).
2. Each Lens Assy

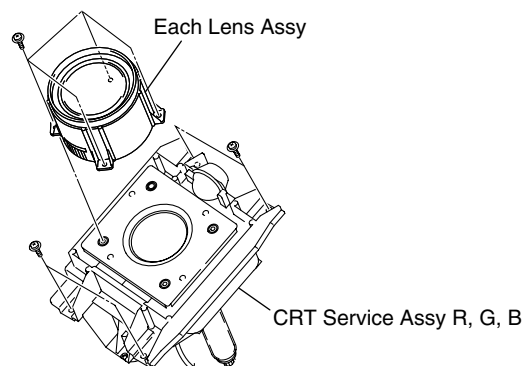


Fig.2 Component parts for X-ray protection



### [ Important symbols for good services ]

In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely. When you find the procedures bearing any of the symbols, be sure to fulfill them:

#### 1. Product safety



You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

#### 2. Adjustments



To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

#### 3. Cleaning



For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

#### 4. Shipping mode and shipping screws



To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

#### 5. Lubricants, glues, and replacement parts



Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount. For replacement parts or tools, the prescribed ones should be used.

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# 1. SPECIFICATIONS

## Display and amplifier section

Reception system American TV standard NTSC system  
Screen size ..... 64" (PRO-730HD)  
58" (PRO-630HD)  
53" (PRO-530HD)

CRT ..... 7" High focus CRT x 3

Brightness (White peak) ..360 Foot-Lambert (PRO-730HD)  
380 Foot-Lambert (PRO-630HD)  
450 Foot-Lambert (PRO-530HD)  
[White window signal input contrast Max.]  
without protective screen

Horizontal resolution ..More than 1400 lines (PRO-730HD)  
More than 1250 lines (PRO-630HD)  
More than 1150 lines (PRO-530HD)  
[Input digital test pattern (1400 lines resolution)]

Input terminals .....4 video inputs  
4 S-VIDEO input jacks (Y/C separate INPUT)  
2 COMPONENT VIDEO INPUT jacks (Y, P<sub>B</sub>, P<sub>R</sub>)  
6 audio inputs  
CENTER INPUT jack  
Mini D-sub 15 pin INPUT jack (RGB)  
BNC VIDEO INPUT jack  
BNC COMPONENT VIDEO INPUT jack (Y, P<sub>B</sub>, P<sub>R</sub>)  
2 DVI 25 pin INPUT jacks (Digital)

### NOTE:

INPUT 1 video and component video input can be input to both  
BNC and RCA type.

Output terminals ..... MONITOR/TV, AUDIO

Input terminal signal ratings

Input signal

Video signal:

Composite and S-VIDEO (Y): 1.0 Vp-p (75 ohms load)  
COMPONENT (Y): 1.0 Vp-p (75 ohms load)  
(P<sub>B</sub>, P<sub>R</sub>): 0.7 Vp-p (75 ohms load)

\*Mini D-sub 15 pin (RGB): 0.7 Vp-p (75 ohms load)

\*Digital signal: 3.3V T.M.D.S, 50 ohms

Audio signal (including CENTER): 400mV rms

Input impedance ..... Video input: 75 ohms  
Audio input (including CENTER): 22 kΩ  
or more

Input signal polarity (Video) ..... Synchronized negative

Output terminal signal ratings

Output signal ..... Video signal: 1 Vp-p (75 ohms load)

Audio signal: 500 mV rms (100 % modulation)

Output impedance ..... Video output: 75 ohms

Audio output: Less than 1 kilo-ohms

Effective output

Front both channels driven ..... 10 W + 10 W

Built-in speaker system ..... 16 cm (6-5/16 in) full range x 2

\* This jack cannot be used with a personal computer.

## Tuner section

Circuit type ..... Video signal detection:  
PLL full synchronous detection  
PLL digital synthesizer system  
Audio multiplex: BTSC system

Reception channels.. VHF; CH2~CH13, UHF; CH14~CH69  
CATV (STANDARD, IRC or HRC)  
CATV 1-125 CH

Antenna terminals ..... Antenna terminal, 75 ohms UNBAL,  
F-type connector (VHF, UHF MIXED)

## Electrical section, miscellaneous

Power requirements ..... 120 V AC, 60 Hz

Power consumption

At time of shipment ..... 250 W, 450 VA (CSA)

External dimensions

PRO-730HD ..... 1510 (W) x 1425 (H) x 709 (D) mm

59-7/16 (W) x 56-1/8 (H) x 27-15/16 (D) inch

PRO-630HD ..... 1378 (W) x 1351 (H) x 675 (D) mm

54-1/4 (W) x 53-3/16 (H) x 26-9/16 (D) inch

PRO-530HD ..... 1268 (W) x 1289 (H) x 640 (D) mm

49-15/16 (W) x 50-3/4 (H) x 25-3/16 (D) inch

Weight of main unit

PRO-730HD ..... 155 kg (341 lb 11 oz)

PRO-630HD ..... 138 kg (304 lb 4 oz)

PRO-530HD ..... 123 kg (271 lb 3 oz)

## Wireless remote control unit

Operation system ..... Infrared remote control system

Power source ..... Two DURACELL<sup>®</sup> "AA" MN1500 1.5 V  
ALKALINE dry cell batteries

Dimensions ..... 66 (W) x 226.5 (D) x 24.6 (H) mm

2-19/32 (W) x 8-29/32 (D) x 31/32 (H) inch

Weight ..... 165 g (6 oz) (without batteries)

## Accessories

Operating instructions ..... 1

Warranty card ..... 1

Remote control unit ..... 1

DURACELL<sup>®</sup> "AA" MN1500 1.5V

Alkaline dry cell batteries ..... 2

Side frame cover ..... 2

Frame cover..... 2

### NOTE:

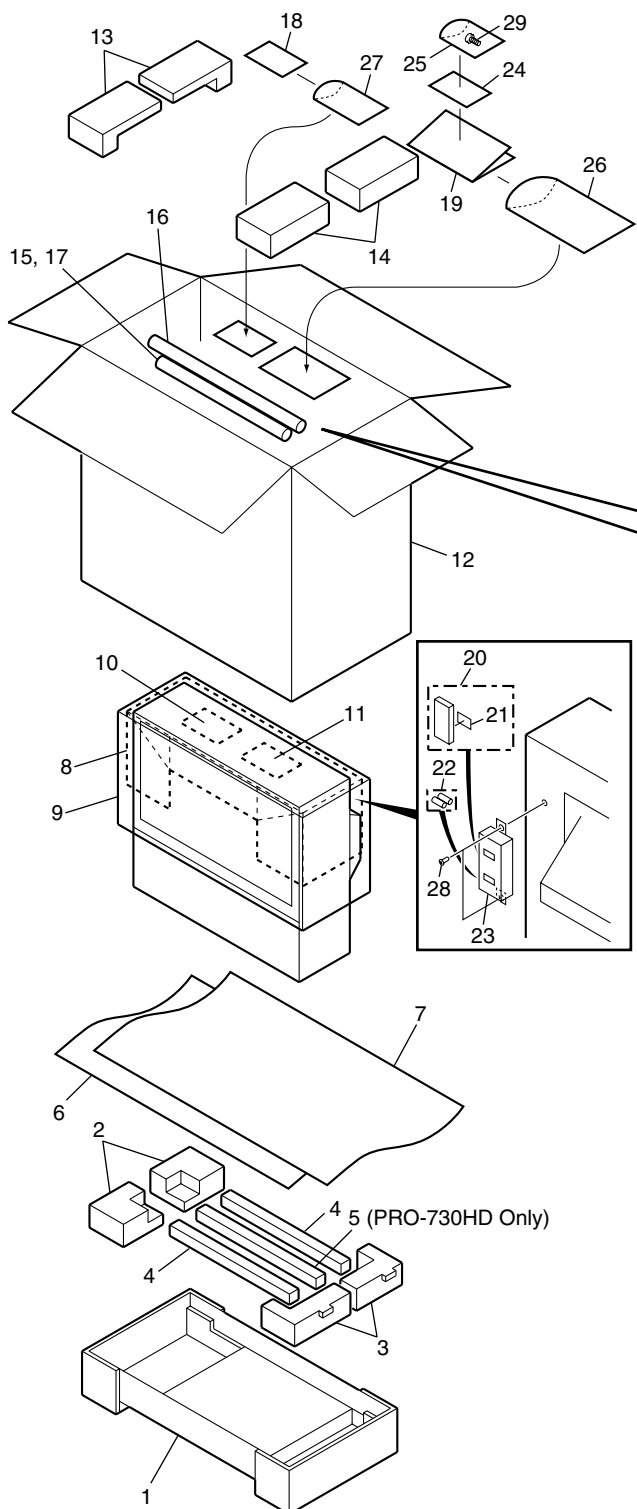
Specifications and design are subject to possible modifications  
without notice due to improvements.

## 2. EXPLODED VIEWS AND PARTS LIST

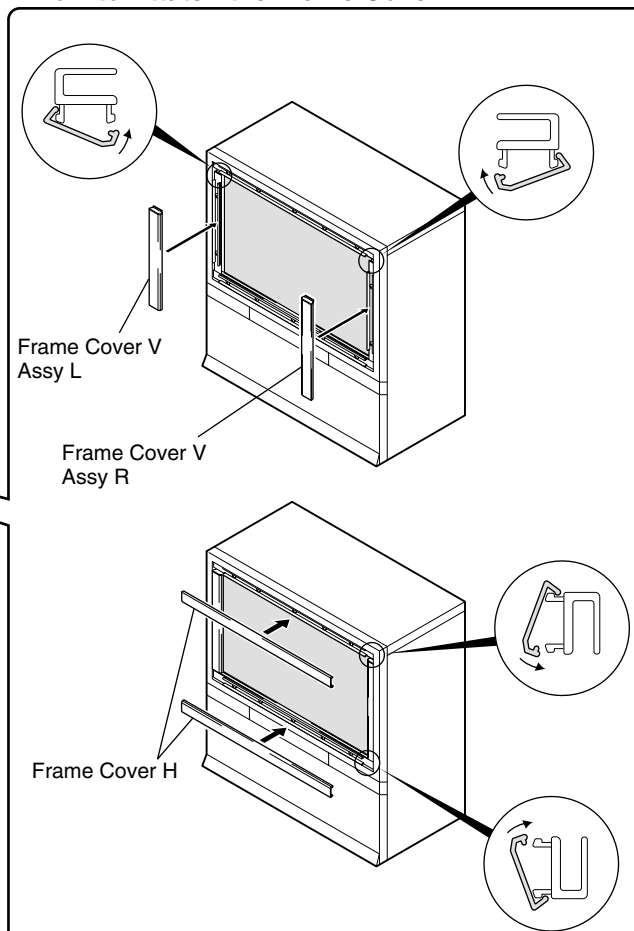
**NOTES :**

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to  $\nabla$  mark on the product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)
- Parts marked by  $\star$  are important parts which relate in X-rays radiation. If any of these parts need to be replaced, always replace with specified parts.

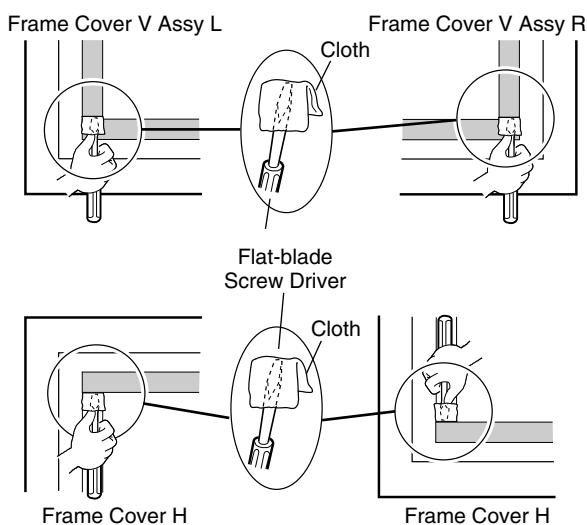
### 2.1 PACKING



#### • How to Attach the Frame Cover



#### • How to remove Frame Cover



## (1) PACKING parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Under Carton	See Contrast table (2)	16	Frame Cover H	See Contrast table (2)
2	Under Pad L	See Contrast table (2)	17	Frame Cover V Assy R	See Contrast table (2)
3	Under Pad R	See Contrast table (2)	NSP 18	Warranty Card EL	ARY1122
NSP 4	Under Cushion A	See Contrast table (2)	19	Operating Instructions (English)	ARB1546
NSP 5	Under Cushion B	See Contrast table (2)	20	Remote Control Unit	AXD1468
6	Vinyl Sheet Under	See Contrast table (2)	21	Battery Cover	AZN2401
NSP 7	Packing Sheet Under	See Contrast table (2)	NSP 22	Alkaline Dry Cell Battery (LR6, AA)	AEX1018
NSP 8	Packing Sheet	See Contrast table (2)	23	CU Packing Case	AHC1032
NSP 9	Vinyl Sheet	See Contrast table (2)	NSP 24	Caution Card	ARM1057
10	CONV. Attention Card	ARM1215	NSP 25	Wrapper Bag	AHG1076
11	Panel Caution Card	ARH1174	NSP 26	Literature Bag	AHG1222
12	Upper Carton	See Contrast table (2)	NSP 27	Polyethylene Bag	AHG1285
13	Upper Pad L	See Contrast table (2)	28	Screw	ABA1239
14	Upper Pad R	See Contrast table (2)	29	Screw	ABA1226
15	Frame Cover V Assy L	See Contrast table (2)			

## (2) CONTRAST TABLE

PRO-730HD/KUXC/CA, PRO-630HD/KUXC/CA and PRO-530HD/KUXC/CA are constructed the same except for the following :

Mark	No.	Symbol and Description	PRO-730HD/ KUXC/CA	PRO-630HD/ KUXC/CA	PRO-530HD/ KUXC/CA
	1	Under Carton (64W)	AHD2995	Not used	Not used
	1	Under Carton (58W)	Not used	AHD3047	Not used
	1	Under Carton (53W)	Not used	Not used	AHD3048
	2	Under Pad L	AHA2224	AHA2255	AHA2255
	3	Under Pad R	AHA2225	AHA2256	AHA2256
NSP	4	Under Cushion A	AHA2228	Not used	Not used
NSP	4	Under Cushion A (58W)	Not used	AHA2258	Not used
NSP	4	Under Cushion A (53W)	Not used	Not used	AHA2260
NSP	5	Under Cushion B	AHA2229	Not used	Not used
	6	Vinyl Sheet 64W Under	AHG1289	AHG1289	Not used
	6	Vinyl Sheet 60 Under	Not used	Not used	AHG1234
NSP	7	Packing Sheet 64W Under	AHG1290	AHG1290	Not used
NSP	7	Packing Sheet 60L	Not used	Not used	AHG1235
NSP	8	Packing Sheet (60)	AHG1230	AHG1230	Not used
NSP	8	Packing Sheet (50, 45)	Not used	Not used	AHG1120
NSP	9	Vinyl Sheet 64W Upper	AHG1288	AHG1288	Not used
NSP	9	Vinyl Sheet XL	Not used	Not used	AHG1095
	12	Upper Carton (64W)	AHD3150	Not used	Not used
	12	Upper Carton (58W)	Not used	AHD3149	Not used
	12	Upper Carton (53W)	Not used	Not used	AHD3148
	13	Upper Pad L	AHA2222	AHA2253	AHA2253
	14	Upper Pad R	AHA2223	AHA2254	AHA2254
	15	Frame Cover V Assy L 64	AAP1664	Not used	Not used
	15	Frame Cover V Assy L 58	Not used	AAP1662	Not used
	15	Frame Cover V Assy L 53	Not used	Not used	AAP1660
	16	Frame Cover H (64W)	AAP1593	Not used	Not used
	16	Frame Cover H (58W)	Not used	AAP1613	Not used
	16	Frame Cover H (53W)	Not used	Not used	AAP1614
	17	Frame Cover V Assy R 64	AAP1665	Not used	Not used
	17	Frame Cover V Assy R 58	Not used	AAP1663	Not used
	17	Frame Cover V Assy R 53	Not used	Not used	AAP1661

2.2 FRONT SECTION (1)

A

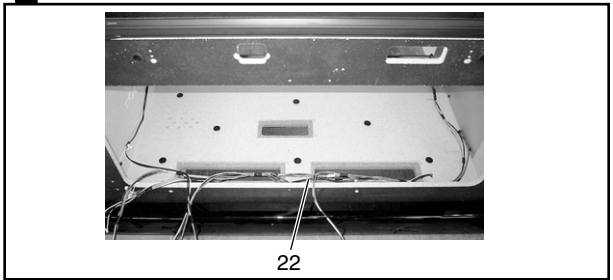
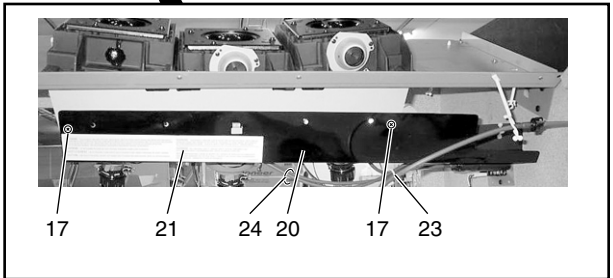
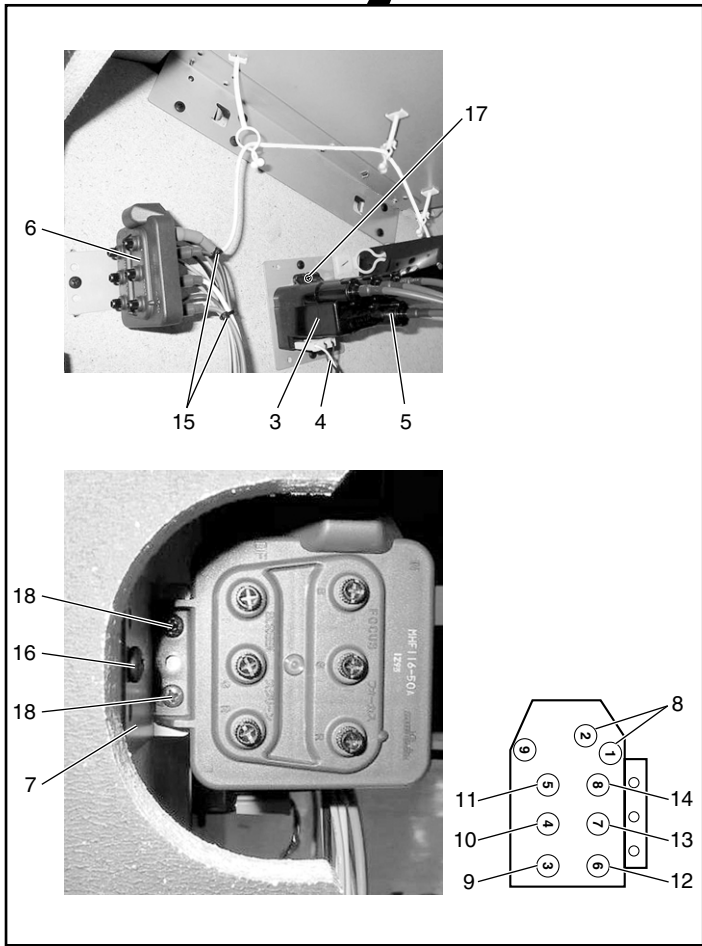
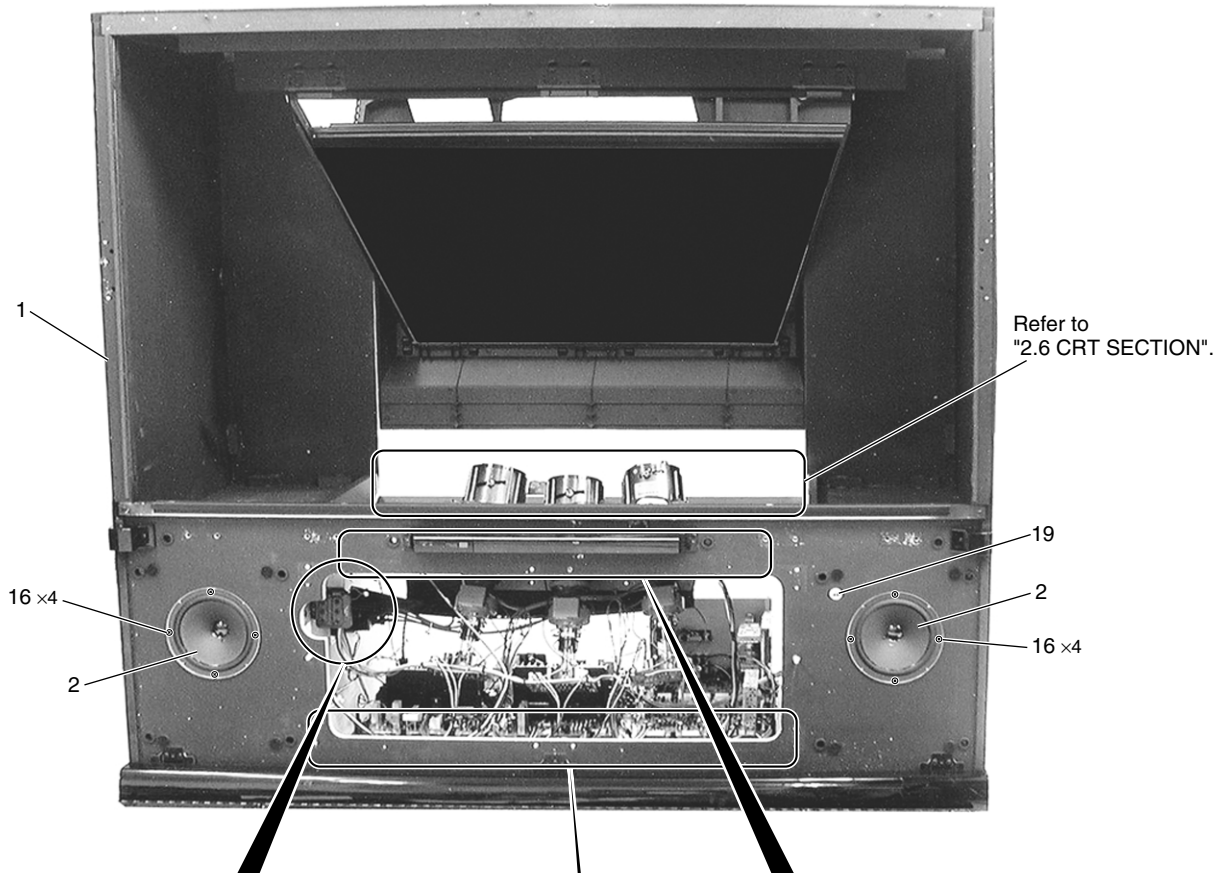
B

C

D

E

F



## (1) FRONT SECTION (1) parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
NSP 1	Cabinet	See Contrast table (2)	15	Nylon Binder	AEC-093
2	Cone Speaker	APV1021	16	Screw	ABA1240
3	HV Distributor	AXW1050	17	Screw	ABZ30P120FZK
4	5P HV Return Wire (J2)	ADX2658	18	Screw	BBZ30P080FZK
5	HV Cable (J9)	ADY1064	NSP 19	UL Caution Card	AAX1238
⚠ 6	Focus Volume (VR1)	ACX1097	NSP 20	Tray	AMR3337
NSP 7	VR Holder	ANG1956	NSP 21	Solder Warning Label	AAX2835
8	4P Housing Wire (J11)	ADX2801	22	Wire Harness A (J12)	ADX2802
9	1P Lead Wire (J3)	ADX2659	23	Purse Lock	AEC1540
10	1P Lead Wire (J4)	ADX2660	24	Purse Lock S	AEC1261
11	1P Lead Wire (J5)	ADX2661			
12	1P Lead Wire (J6)	ADX2662			
13	1P Lead Wire (J7)	ADX2663			
14	1P Lead Wire (J8)	ADX2664			

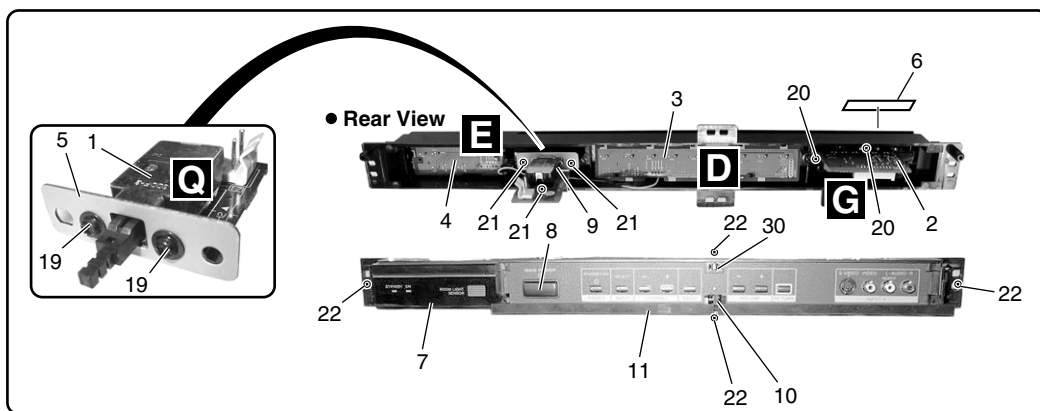
## (2) CONTRAST TABLE

PRO-730HD/KUXC/CA, PRO-630HD/KUXC/CA and PRO-530HD/KUXC/CA are constructed the same except for the following :

Mark	No.	Symbol and Description	PRO-730HD/ KUXC/CA	PRO-630HD/ KUXC/CA	PRO-530HD/ KUXC/CA
NSP	1	Cabinet (64W)	AMM3217	Not used	Not used
NSP	1	Cabinet (58W)	Not used	AMM3216	Not used
NSP	1	Cabinet (53W)	Not used	Not used	AMM3215

## 2.3 FRONT SECTION (2)

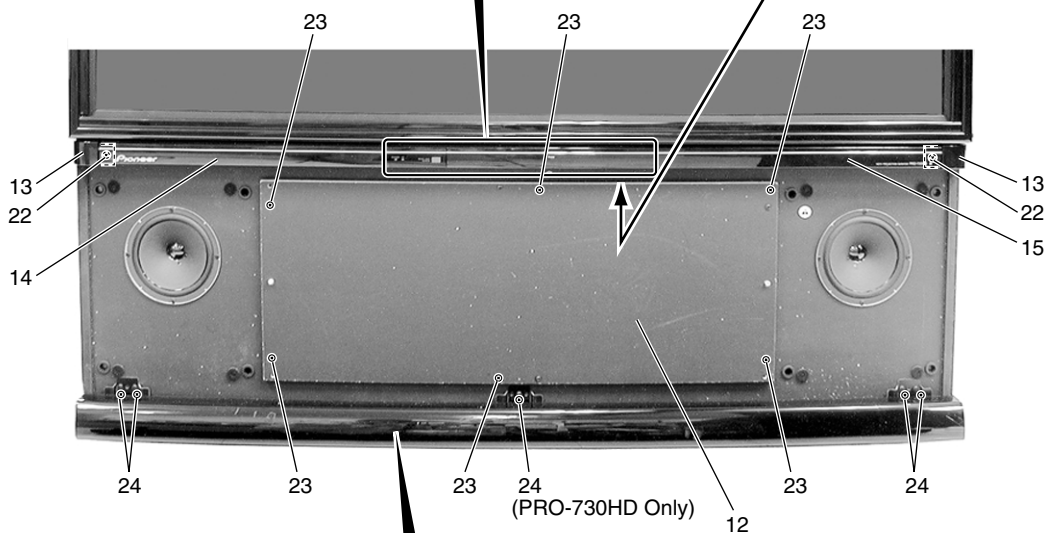
A



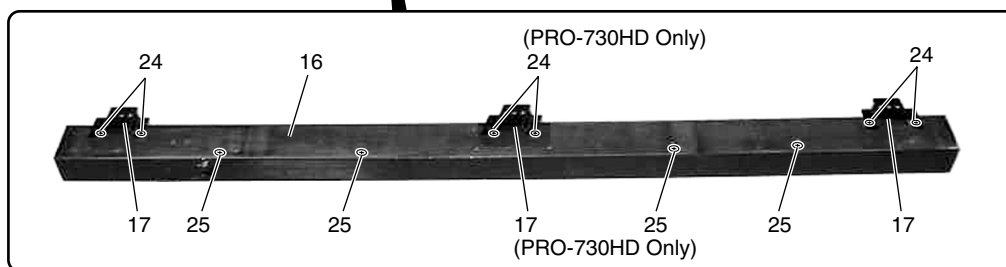
B

• How to check the serial number:  
Remove the grille and look at the front panel from below.

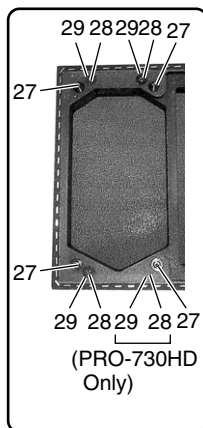
C



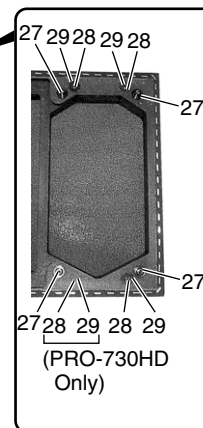
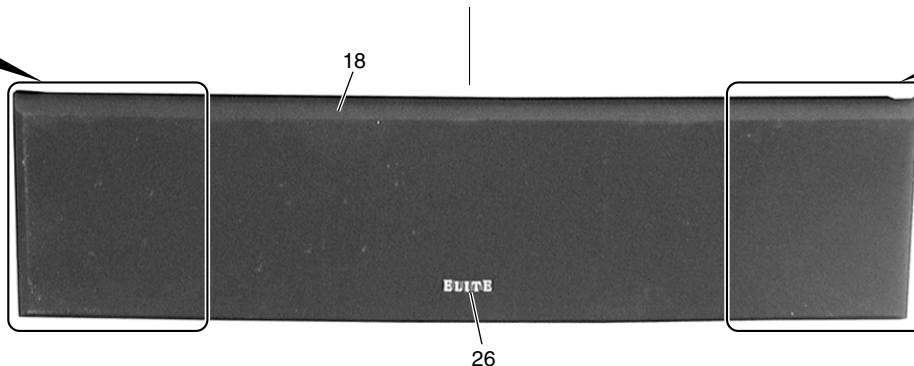
D



E



F





## (1) FRONT SECTION (2) parts List

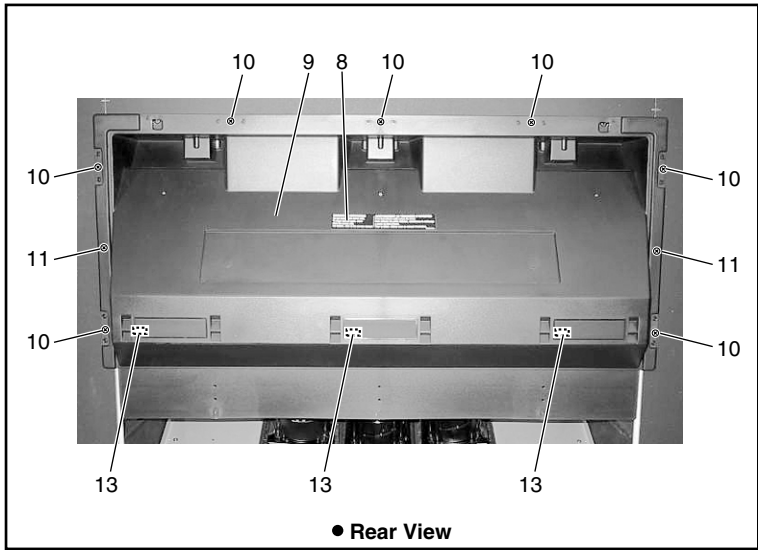
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	POWER SW Assy	AWZ6713	NSP 16	Bottom Rail	See Contrast table (2)
2	FRONT INPUT Assy	AWZ6715	17	Bottom Rail Holder	ANG2289
3	FRONT CONTROL Assy	AWZ6718	18	Grille	See Contrast table (2)
4	LED RLS Assy	AWZ6719	19	Screw	AMZ30P060FZK
NSP 5	Switch Holder	ANG2313	20	Screw	ABZ40P080FZK
NSP 6	Serial Tag	AAX1144	21	Screw	APZ30P080FZK
7	Front Panel Assy	AMB2739	22	Screw	ABA1240
8	Power Knob	AAD4105	23	Screw	ABA1249
NSP 9	Front Shield	ANK1502	24	Screw	ABA1239
10	Axis Damper	AXA1016	25	Screw	ABA1263
11	Door Assy	AAN1468	26	ELITE Badge	AAM1081
12	Blind Plate	AMM3222	NSP 27	Catcher A	ANZ-241
13	Side Cover	AMR3107	28	Screw	ABA1271
14	Side Panel Assy L	See Contrast table (2)	29	Magic Tape	AEC1394
15	Side Panel Assy R	See Contrast table (2)	30	Catcher F2M	AEC1609

## (2) CONTRAST TABLE

PRO-730HD/KUXC/CA, PRO-630HD/KUXC/CA and PRO-530HD/KUXC/CA are constructed the same except for the following :

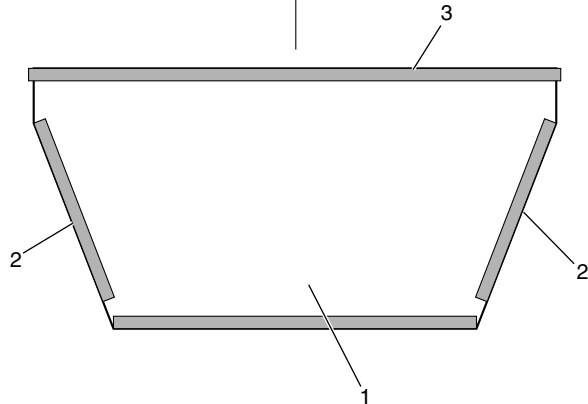
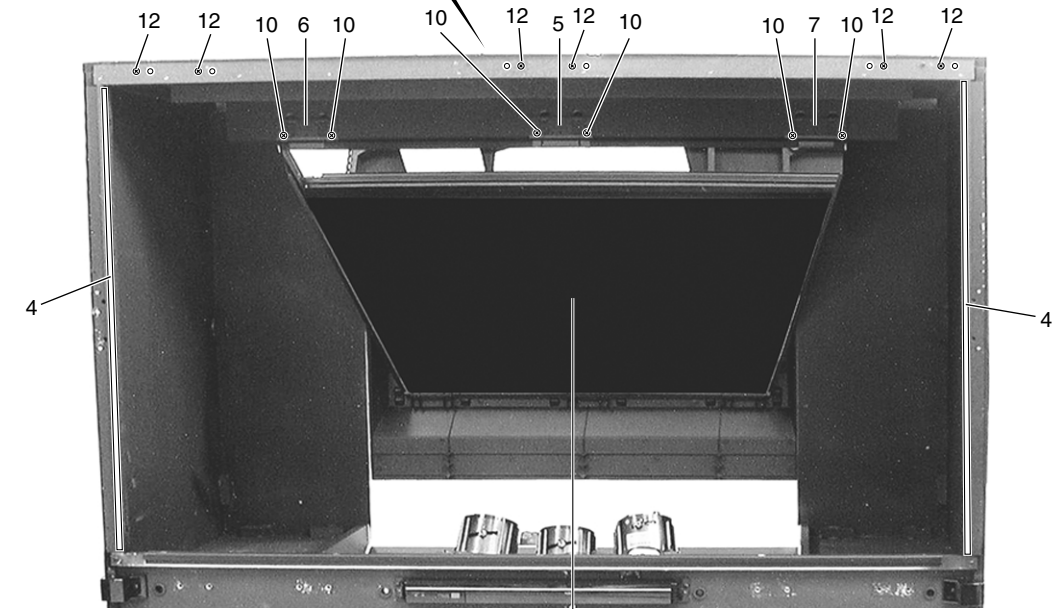
Mark	No.	Symbol and Description	PRO-730HD/ KUXC/CA	PRO-630HD/ KUXC/CA	PRO-530HD/ KUXC/CA
	14	Side Panel Assy 64L	AMB2747	Not used	Not used
	14	Side Panel Assy 58L	Not used	AMB2701	Not used
	14	Side Panel Assy 53L	Not used	Not used	AMB2700
	15	Side Panel Assy 64R	AMB2745	Not used	Not used
	15	Side Panel Assy 58R	Not used	AMB2743	Not used
	15	Side Panel Assy 53R	Not used	Not used	AMB2741
NSP	16	Bottom Rail 64	AMM2945	Not used	Not used
NSP	16	Bottom Rail 58	Not used	AMM3011	Not used
NSP	16	Bottom Rail 53	Not used	Not used	AMM3012
	18	Grille (64W)	AMM3225	Not used	Not used
	18	Grille (58W)	Not used	AMM3224	Not used
	18	Grille (53W)	Not used	Not used	AMM3223

2.4 MIRROR SECTION



**Caution :**  
Be sure to remove the mirror inside the cabinet before removing the mirror case.  
If the mirror case is removed first, the mirror will fall and likely become damaged.

**A Torx driver is required to remove the No.11 screws.**



### (1) MIRROR SECTION parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Mirror	See Contrast table (2)	NSP 8	Mirror Case Label	AAX2448
2	Mirror Frame V	See Contrast table (2)	9	Mirror Case (51)	AME2296
3	Mirror Frame H	See Contrast table (2)	10	Screw	ABA1240
4	Screen Cushion	See Contrast table (2)			
NSP 5	Mirror Upper Stay C	ANG2006	11	Screw	PYC40T140FZB
			12	Screw	BYC35P160FZK
NSP 6	Mirror Upper Stay L	ANG2004	13	Blind Sheet	AEC1622
NSP 7	Mirror Upper Stay R	ANG2005			

### (2) CONTRAST TABLE

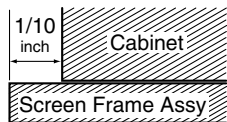
PRO-730HD/KUXC/CA, PRO-630HD/KUXC/CA and PRO-530HD/KUXC/CA are constructed the same except for the following :

Mark	No.	Symbol and Description	PRO-730HD/ KUXC/CA	PRO-630HD/ KUXC/CA	PRO-530HD/ KUXC/CA
	1	Mirror 64W	AMR3333	Not used	Not used
	1	Mirror 58W	Not used	AMR3332	Not used
	1	Mirror 53W	Not used	Not used	AMR3331
	2	Mirror Frame V 64WB	ANG2392	Not used	Not used
	2	Mirror Frame V 58WB	Not used	ANG2526	Not used
	2	Mirror Frame V 53WB	Not used	Not used	ANG2524
	3	Mirror Frame H 64WB	ANG2391	Not used	Not used
	3	Mirror Frame H 58WB	Not used	ANG2371	Not used
	3	Mirror Frame H 53WB	Not used	Not used	ANG2372
	4	Screen Cushion 64	AEC1778	Not used	Not used
	4	Screen Cushion 58	Not used	AEC1830	Not used
	4	Screen Cushion 53	Not used	Not used	AEC1831

## 2.5 SCREEN SECTION

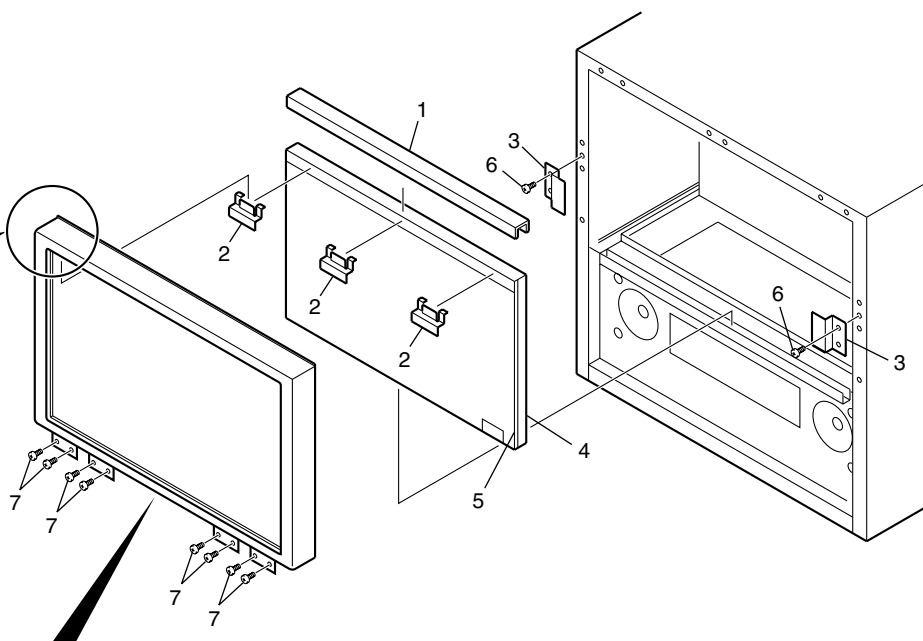
A

When attaching the screen holder to the cabinet, make the left side basically level.

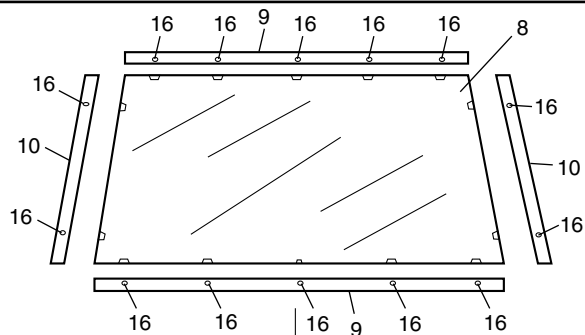


• Top View

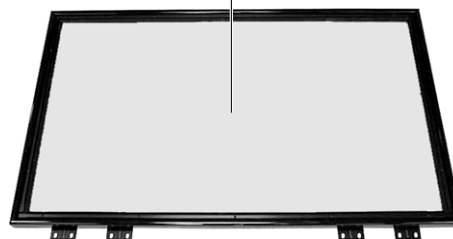
B



C



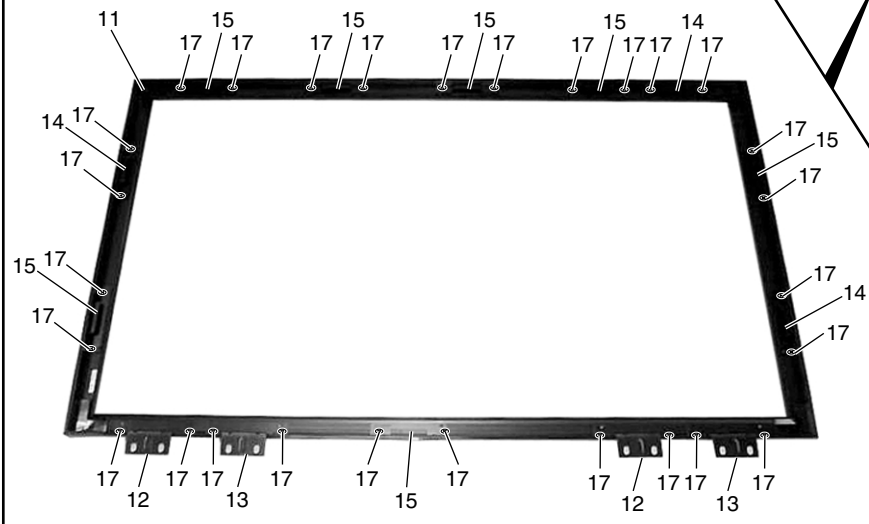
D



• Front View

E

• Rear View



F

## (1) SCREEN SECTION parts List

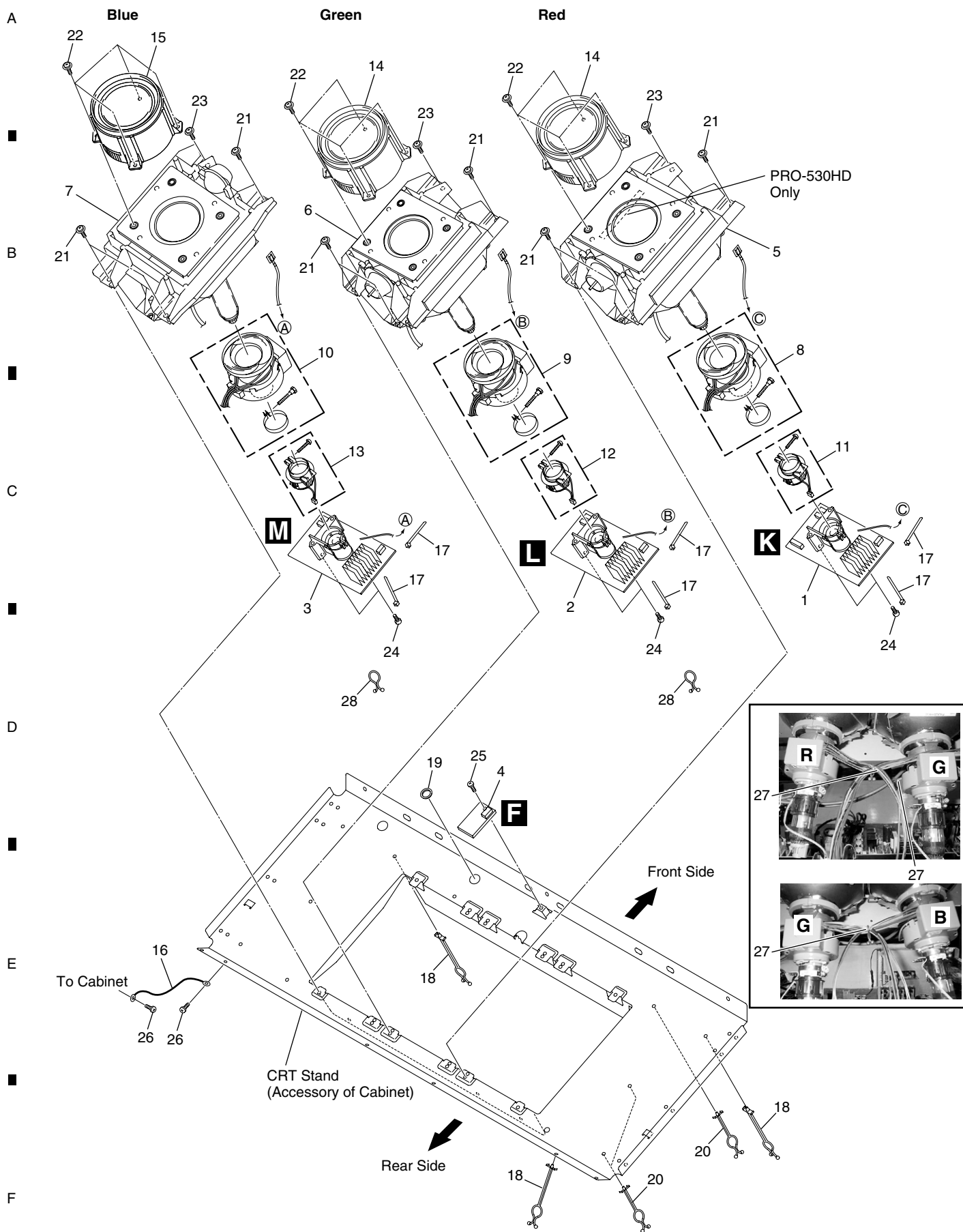
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screen Holder TOP	See Contrast table (2)	11	Screen Frame Assy	See Contrast table (2)
NSP 2	Upper Cabinet Metal	ANG2000	NSP 12	Under Screen Metal A	ANG2003
NSP 3	Screen Side Fitting	ANG1993	NSP 13	Under Screen Metal B	ANG2009
4	Fresnel	See Contrast table (2)	NSP 14	Upper Screen Metal A	ANG2001
5	Lenticular Sheet	See Contrast table (2)	NSP 15	Upper Screen Metal B	ANG2002
6	Screw	ABA1240	16	Screw	ABA1226
7	Screw	ABA1189	17	Screw	BYC40P160FMC
8	AR Panel	See Contrast table (2)			
9	Panel Frame H	See Contrast table (2)			
10	Panel Frame V	See Contrast table (2)			

## (2) CONTRAST TABLE

PRO-730HD/KUXC/CA, PRO-630HD/KUXC/CA and PRO-530HD/KUXC/CA are constructed the same except for the following :

Mark	No.	Symbol and Description	PRO-730HD/ KUXC/CA	PRO-630HD/ KUXC/CA	PRO-530HD/ KUXC/CA
	1	Screen Holder TOP 64W	ANG2530	Not used	Not used
	1	Screen Holder TOP 58W	Not used	ANG2369	Not used
	1	Screen Holder TOP 53W	Not used	Not used	ANG2370
	4	Fresnel 64W	AMR3330	Not used	Not used
	4	Fresnel 58W	Not used	AMR3329	Not used
	4	Fresnel 53W	Not used	Not used	AMR3328
	5	Lenticular Sheet 64W	AMR3327	Not used	Not used
	5	Lenticular Sheet 58W	Not used	AMR3326	Not used
	5	Lenticular Sheet 53W	Not used	Not used	AMR3325
	8	AR Panel (64W)	AAK2791	Not used	Not used
	8	AR Panel (58W)	Not used	AAK2790	Not used
	8	AR Panel (53W)	Not used	Not used	AAK2789
	9	Panel Frame H (64W)	AND1174	Not used	Not used
	9	Panel Frame H (58W)	Not used	AND1173	Not used
	9	Panel Frame H (53W)	Not used	Not used	AND1172
	10	Panel Frame V (64W)	AND1177	Not used	Not used
	10	Panel Frame V (58W)	Not used	AND1176	Not used
	10	Panel Frame V (53W)	Not used	Not used	AND1175
	11	Screen Frame Assy (64W)	AAP1655	Not used	Not used
	11	Screen Frame Assy (58W)	Not used	AAP1654	Not used
	11	Screen Frame Assy (53W)	Not used	Not used	AAP1653

## 2.6 CRT SECTION



## (1) CRT SECTION parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	R CRT DRIVE Assy	AWZ6709	⚠ 16	1P Lead Wire (J15)	ADX2505
2	G CRT DRIVE Assy	AWZ6710	17	Binder	AEC-093
3	B CRT DRIVE Assy	AWZ6711	18	Cord Holder	AEC1257
4	REMOTE SENSOR Assy	AWZ6717	19	Bushing	AEC1869
☆ 5	CRT SERVICE Assy R	See Contrast table (2)	NSP 20	Lead Clamper M	AEC1611
☆ 6	CRT SERVICE Assy G	AWY1444	21	Screw	ABA1168
☆ 7	CRT SERVICE Assy B	See Contrast table (2)	22	Screw	AMZ40P080FZK
⚠ 8	Deflection Yoke (L1)	ATL1144	23	Screw	FBT40P120FZK
⚠ 9	Deflection Yoke (L2)	ATL1144	24	Screw	BPZ30P080FZK
⚠ 10	Deflection Yoke (L3)	ATL1144	25	Screw	BBZ30P080FZK
⚠ 11	VM Coil (L4)	ATL1146	26	Screw	ABZ30P120FZK
⚠ 12	VM Coil (L5)	ATL1146	NSP 27	Purse Lock S	AEC1261
⚠ 13	VM Coil (L6)	ATL1146	28	Purse Lock	AEC1540
☆ 14	Lens Assy	See Contrast table (2)			
☆ 15	Lens Assy	See Contrast table (2)			

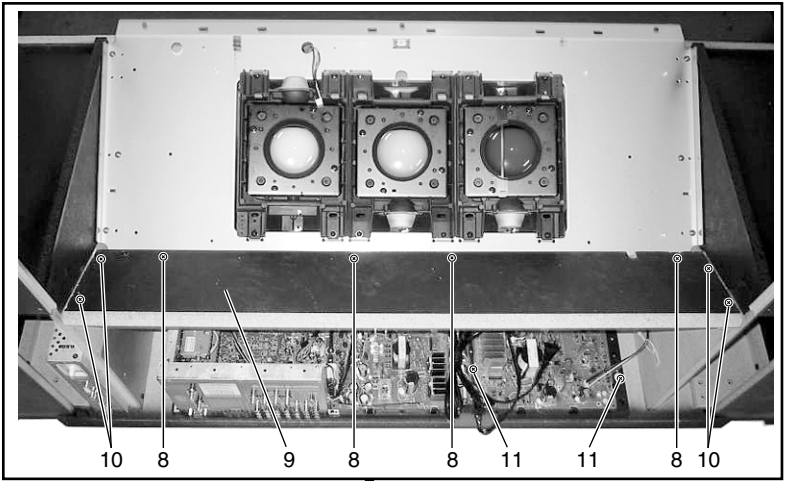
## (2) CONTRAST TABLE

PRO-730HD/KUXC/CA, PRO-630HD/KUXC/CA and PRO-530HD/KUXC/CA are constructed the same except for the following :

Mark	No.	Symbol and Description	PRO-730HD/ KUXC/CA	PRO-630HD/ KUXC/CA	PRO-530HD/ KUXC/CA
☆	5	CRT SERVICE Assy 64R	AWY1448	Not used	Not used
☆	5	CRT SERVICE Assy 58R	Not used	AWY1446	Not used
☆	5	CRT SERVICE Assy 53R	Not used	Not used	AWY1443
☆	7	CRT SERVICE Assy 58B	AWY1447	AWY1447	Not used
☆	7	CRT SERVICE Assy 53B	Not used	Not used	AWY1445
☆	14	Lens Assy	AMR3235	AMR3235	AMR3248
☆	15	Lens Assy	AMR3321	AMR3321	AMR3321

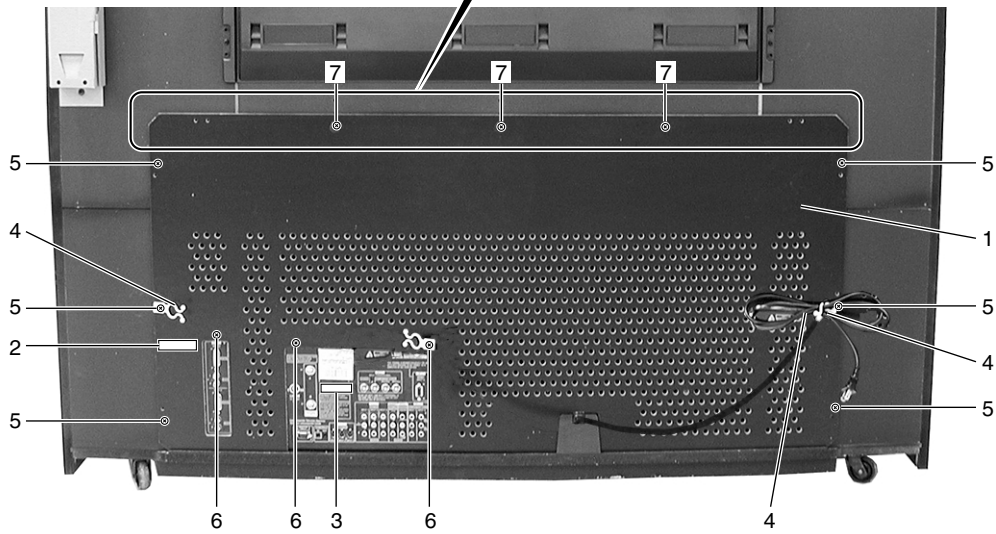
2.7 REAR SECTION

A

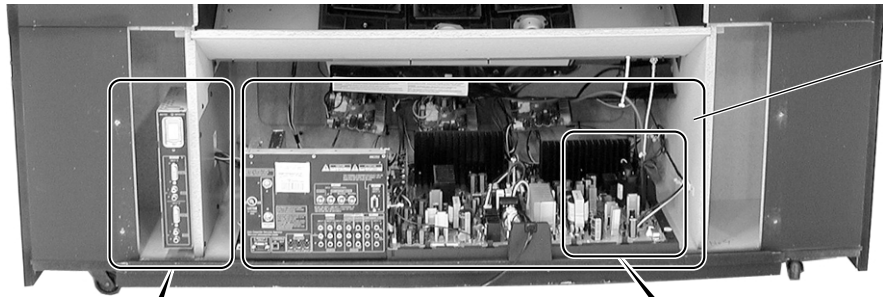


B

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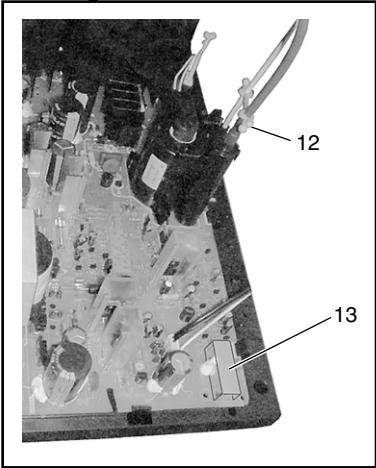


Refer to "2.9 CHASSIS SECTION".

E



F





## (1) REAR SECTION parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Rear Cover	See Contrast table (2)	11	Screw	ABA1296
NSP 2	DVI Caution Label	AAX2954	12	Cable Clip	AEC1369
NSP 3	Serial Tag	AAX2548	13	Volume Case	ANK1682
NSP 4	Cabinet Wire Holder	AEC1263			
5	Screw	ABA1240			
6	Screw	ABZ30P120FZK			
7	Screw	ABA1269			
8	Screw	ABA1286			
NSP 9	Back Cover Panel	See Contrast table (2)			
10	Screw	ABA1241			

## (2) CONTRAST TABLE

PRO-730HD/KUXC/CA, PRO-630HD/KUXC/CA and PRO-530HD/KUXC/CA are constructed the same except for the following :

Mark	No.	Symbol and Description	PRO-730HD/ KUXC/CA	PRO-630HD/ KUXC/CA	PRO-530HD/ KUXC/CA
	1	Rear Cover 64	AMM3221	Not used	Not used
	1	Rear Cover 53, 58	Not used	AMM3220	AMM3220
NSP	9	Back Cover Panel 64	AMM3219	Not used	Not used
NSP	9	Back Cover Panel 53, 58	Not used	AMM3218	AMM3218

2.8 DVI SECTION

A

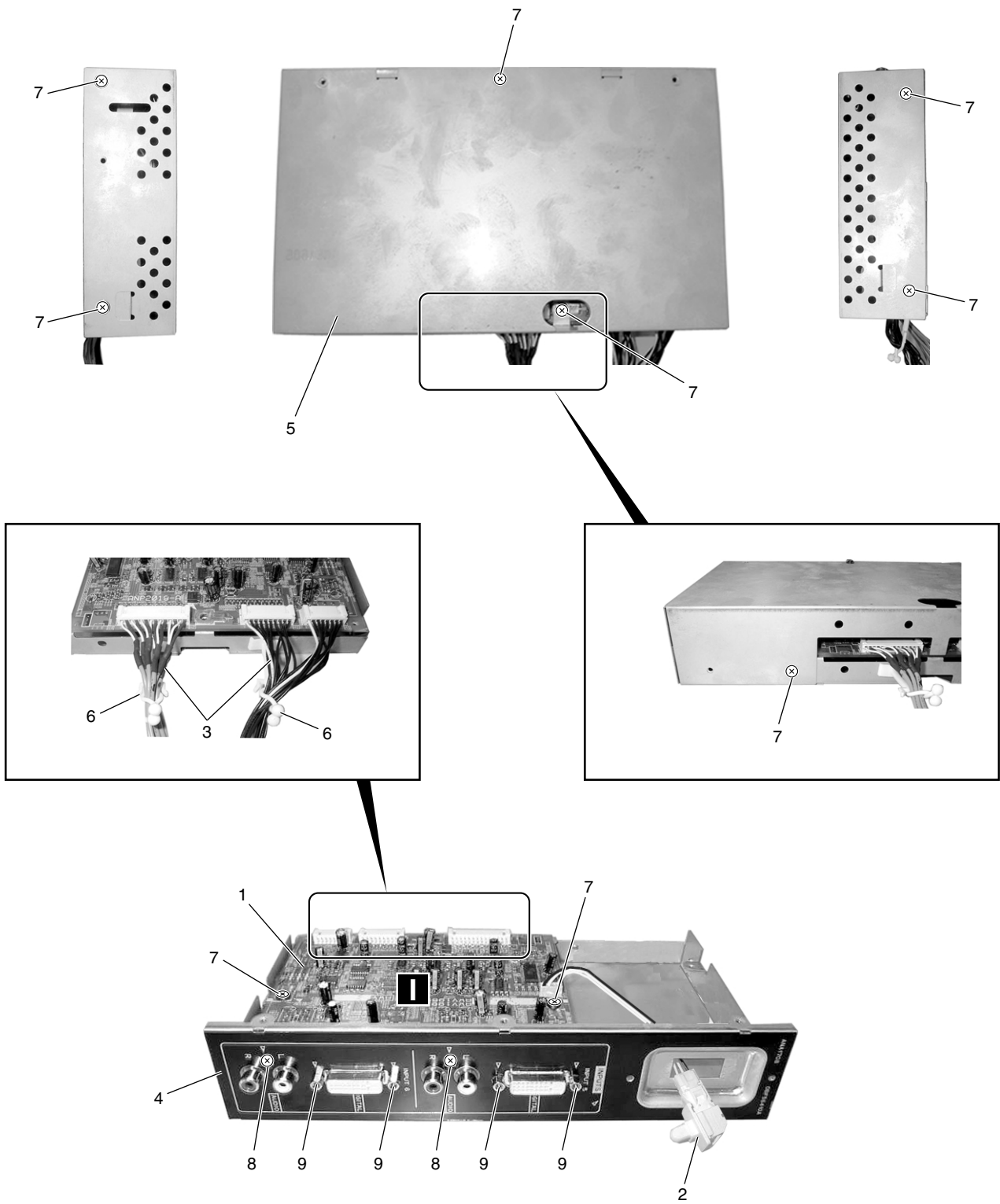
B

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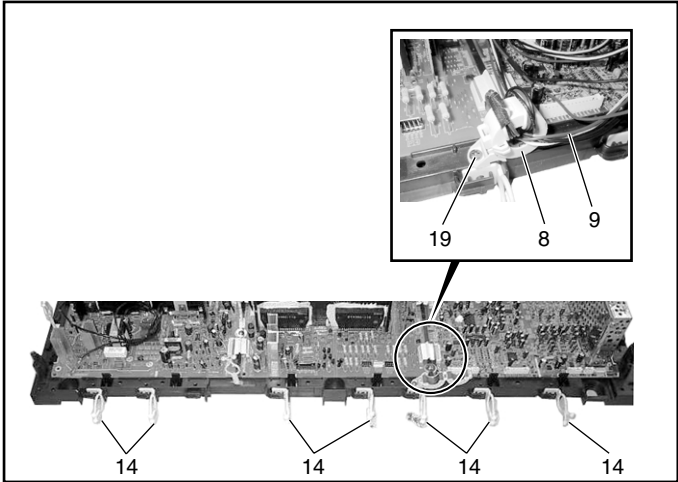


## DVI SECTION parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	DVI SERVICE Assy	AWV1983
2	Power Switch (S2)	ASG1090
3	Wire Harness B (J14)	ADX2810
NSP 4	DVI Chassis	ANA1708
NSP 5	DVI Bonnet	ANE1606
NSP 6	Lead Clamper M	AEC1611
7	Screw	ABZ30P100FZK
8	Screw	BPZ30P100FZK
9	Hexagonal Head Screw	BBA1051

2.9 CHASSIS SECTION

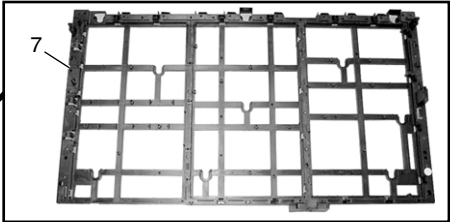
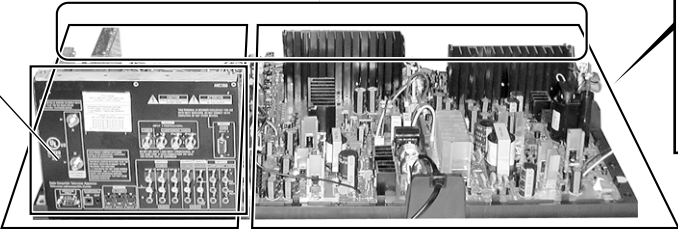
A



B

C

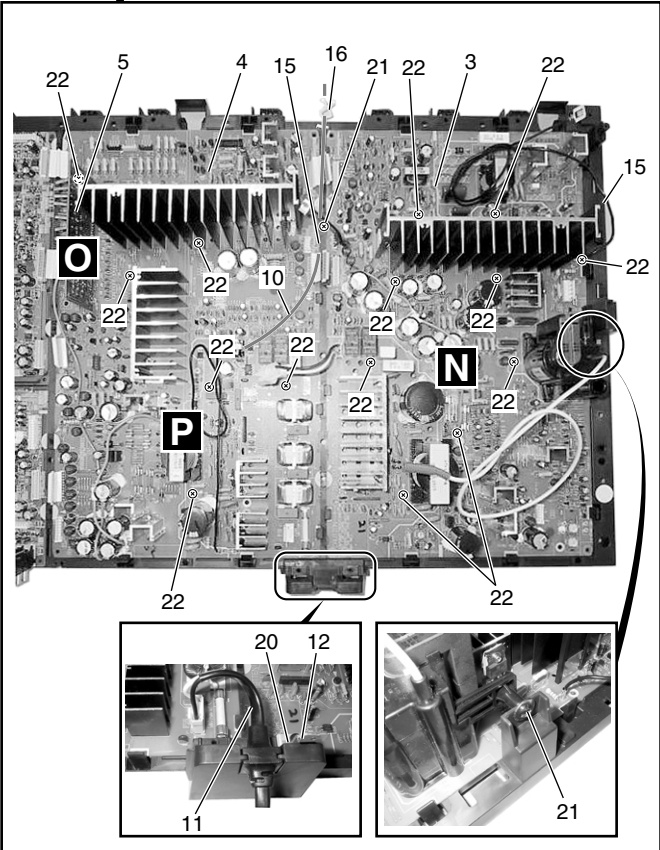
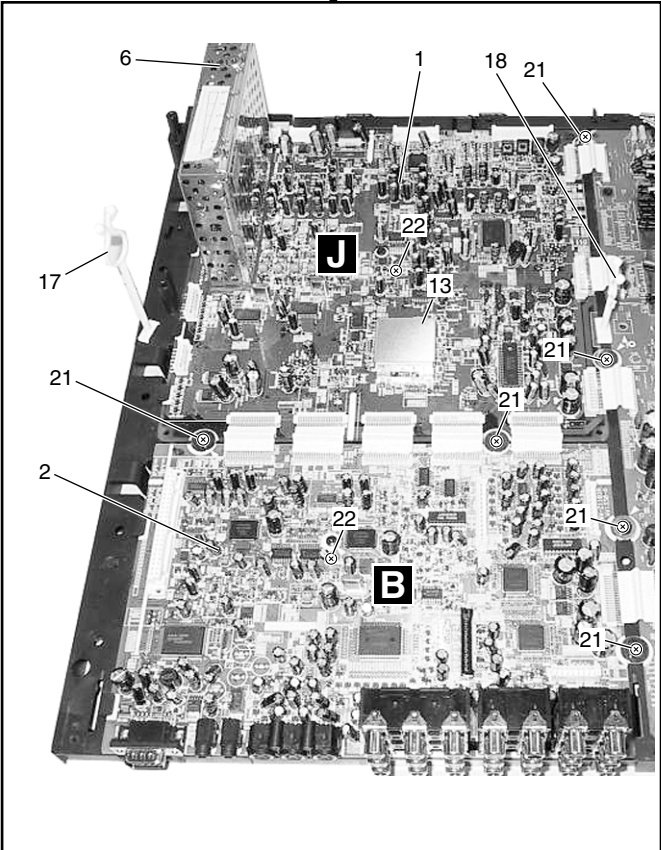
Refer to "2.10 REAR PANEL SECTION".



D

E

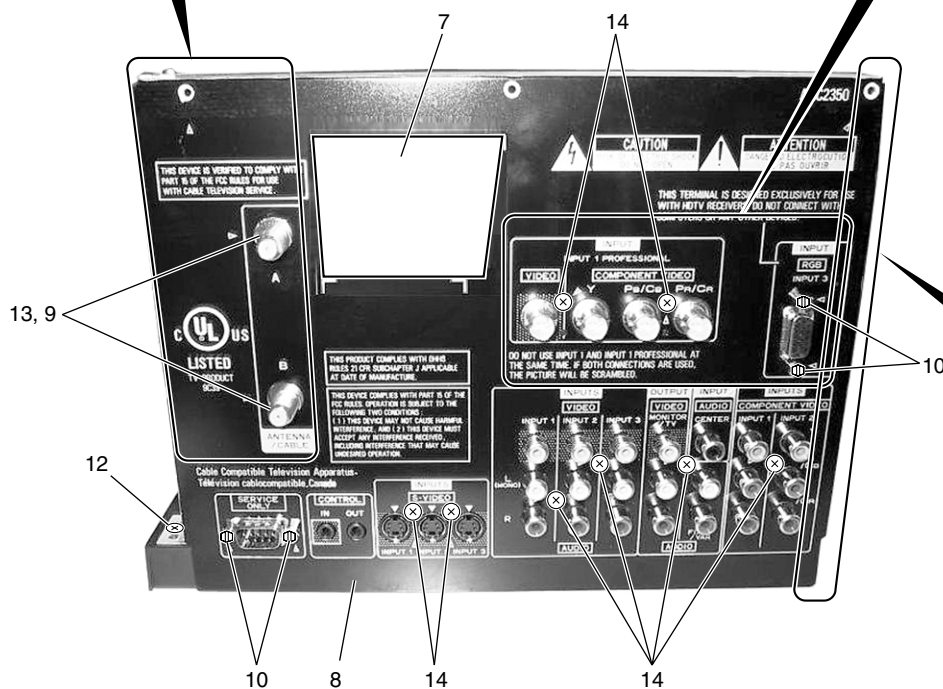
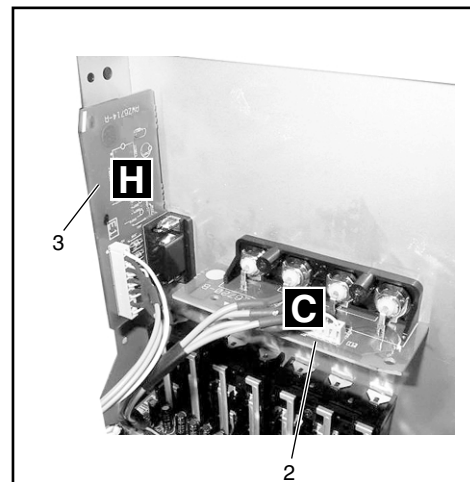
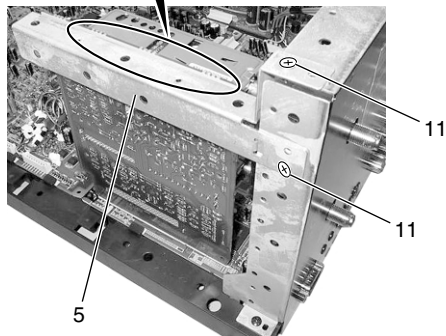
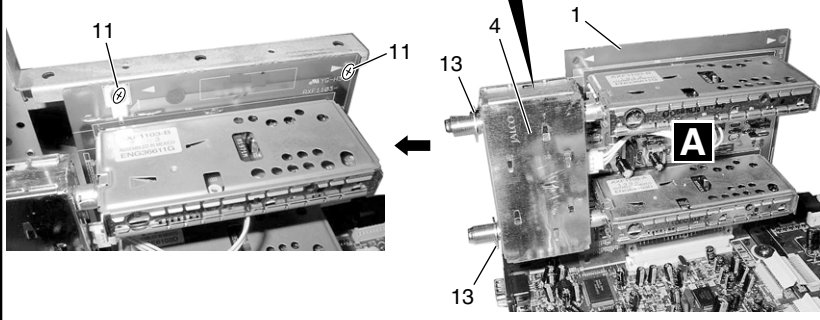
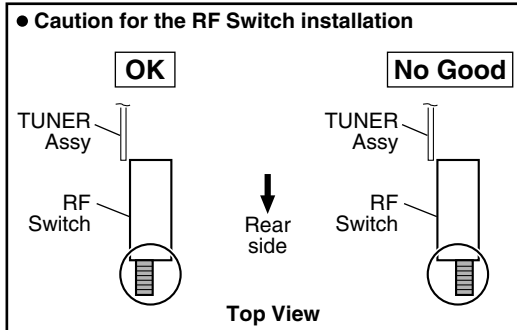
F



## CHASSIS SECTION parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	VIDEO UCOM SERVICE Assy	AWV1992
2	SIGNAL Assy	AWZ6716
☆ 3	DEFLECTION SERVICE Assy	AWV1967
4	POWER SUPPLY Assy	AWV1960
5	DIGITAL CONV. Assy	AWV1966
6	Progressive Unit	AXY1061
NSP 7	Chassis	AMA1013
8	Ferrite Core (L9)	ATX1045
9	4P Housing Wire (J13)	ADX2809
10	2P Housing Wire (J10)	ADX2800
⚠ 11	Power Cord	ADG1205
NSP 12	AC Cord Holder	ANG2539
NSP 13	U-COM Shield	ANK1697
NSP 14	Cabinet Wire Holder	AEC1263
NSP 15	Lead Clamper M	AEC1611
16	Cable Clip	AEC1911
17	Cord Holder	AEC1257
18	Cable Clip	AEC1806
19	Screw	PPZ40P120FMC
20	Screw	ABZ30P120FZK
21	Screw	ABA1235
22	Screw	BPZ30P140FZK

## 2.10 REAR PANEL SECTION



**(1) REAR PANEL SECTION parts List**

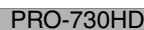
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	TUNER Assy	AWZ6712	9	Nut	BBN1005
2	BNC Assy	AWZ6720	10	Hexagonal Head Screw	BBA1051
3	D-SUB Assy	AWZ6714			
4	RF Switch	AXF1109	11	Screw	BBZ30P080FCU
NSP 5	PCB Holder	ANG2520	12	Screw	BPZ30P140FZK
			13	Washer	WAX0F160N100
NSP 6	Cable Clip D3S	AEC1782	14	Screw	BPZ30P100FZK
NSP 7	ID Label	See Contrast table (2)			
8	Rear Panel	ANC2350			

**(2) CONTRAST TABLE**

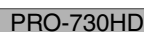
PRO-730HD/KUXC/CA, PRO-630HD/KUXC/CA and PRO-530HD/KUXC/CA are constructed the same except for the following :

Mark	No.	Symbol and Description	PRO-730HD/ KUXC/CA	PRO-630HD/ KUXC/CA	PRO-530HD/ KUXC/CA
NSP	7	ID Label 64	AAL2409	Not used	Not used
NSP	7	ID Label 58	Not used	AAL2408	Not used
NSP	7	ID Label 53	Not used	Not used	AAL2407

### 3.1.1 VIDEO BLOCK

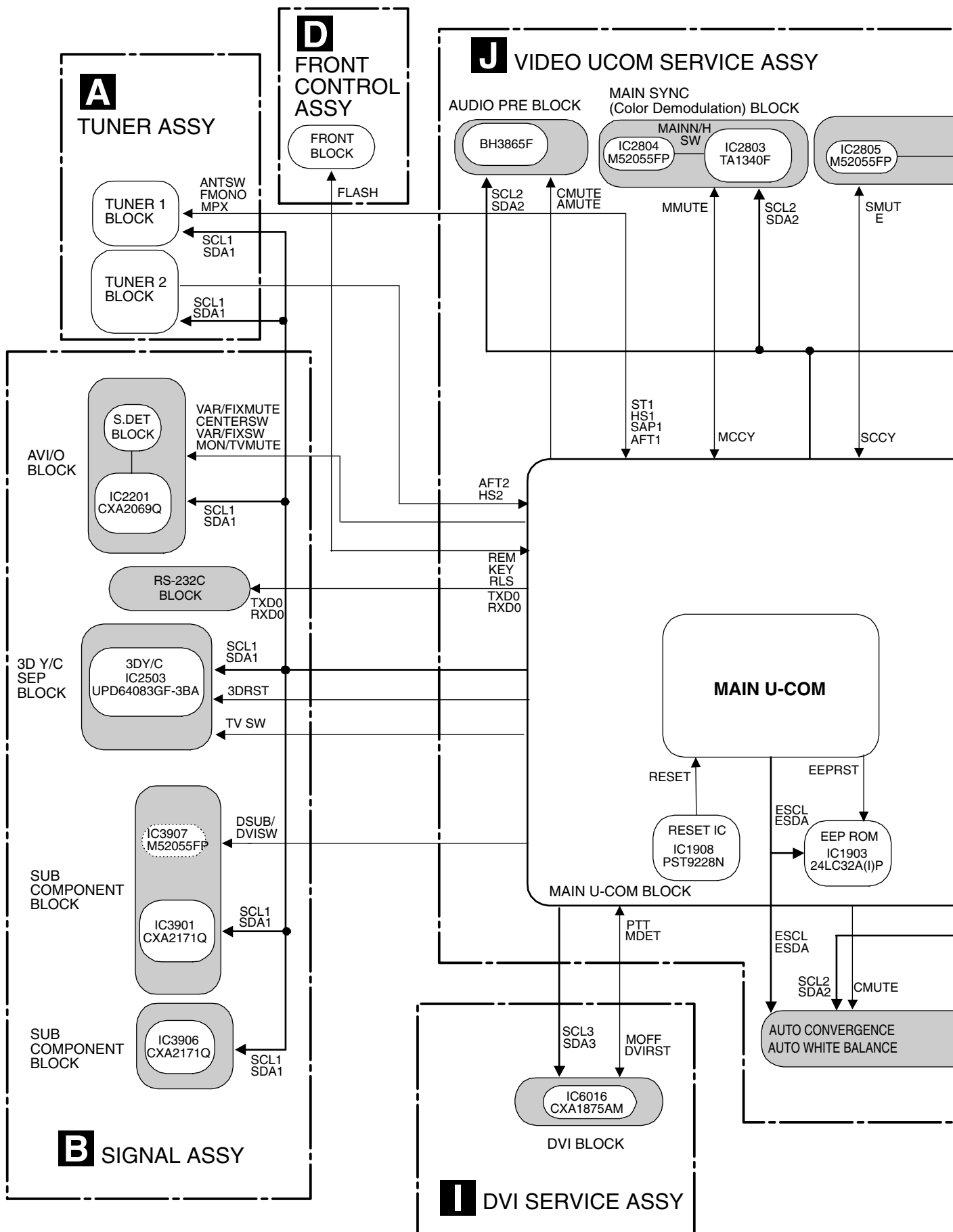


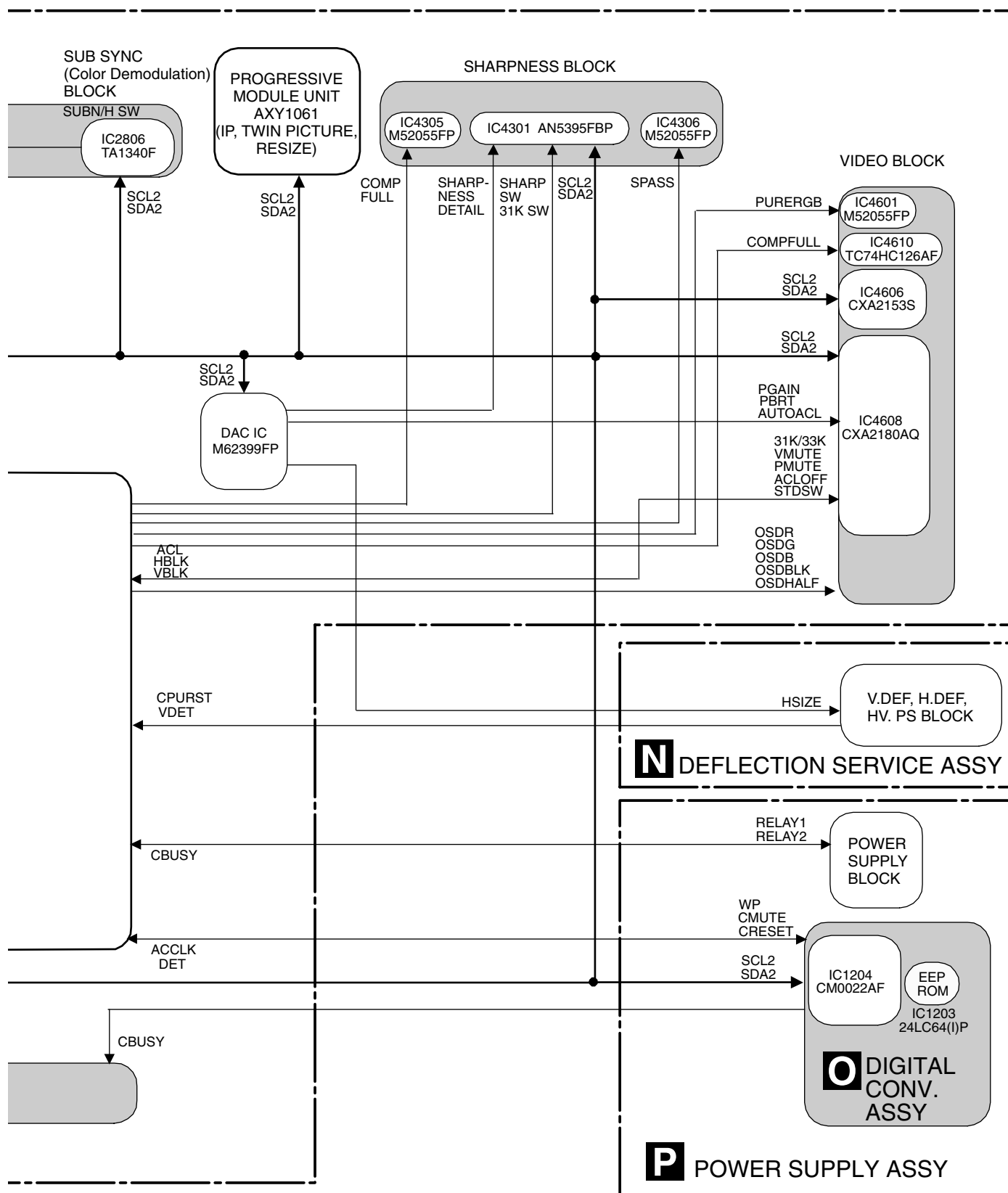




### 3.1.2 CONTROL BLOCK

A  
B  
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F





3.1.3 AUDIO BLOCK

A

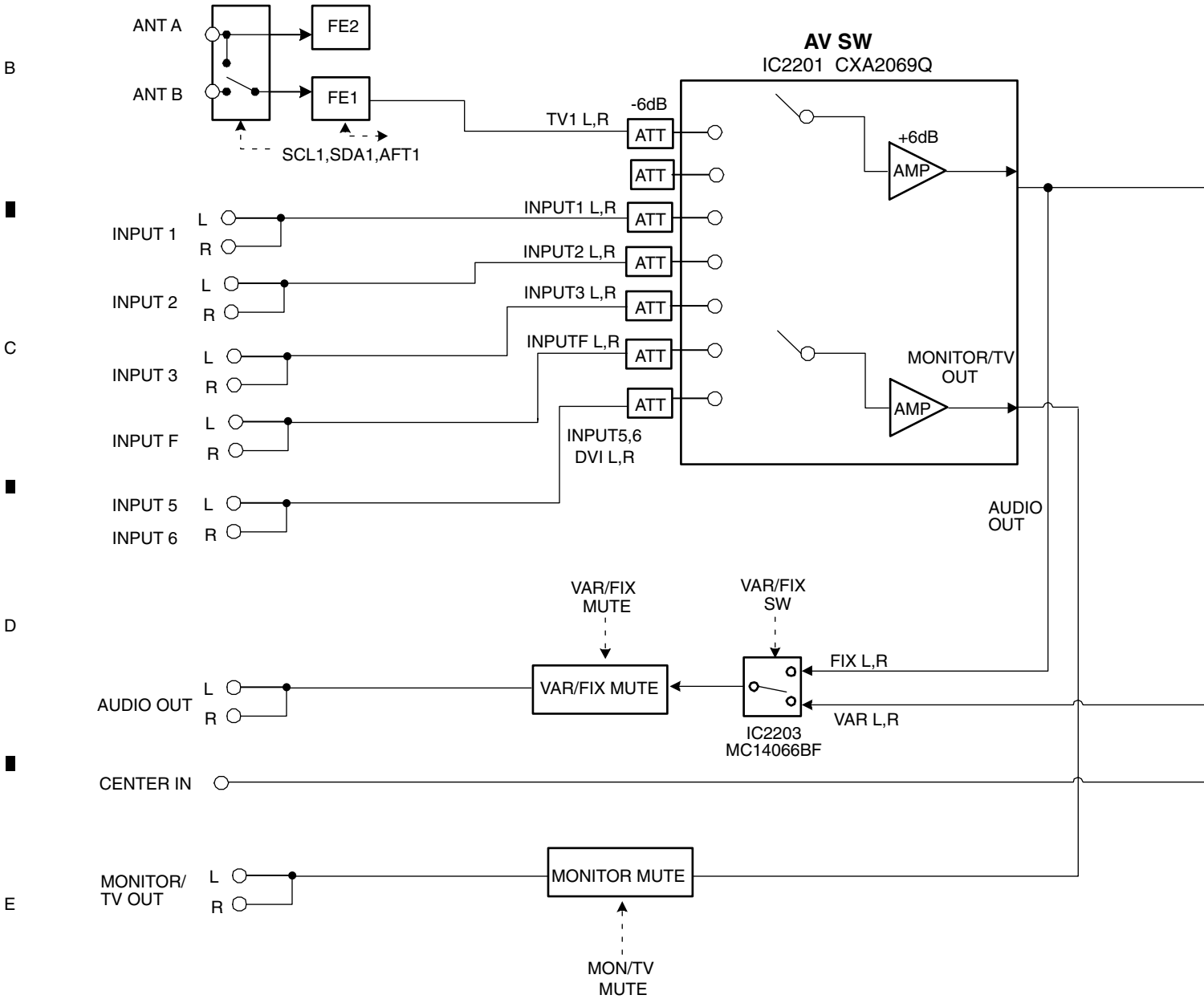
B

C

D

E

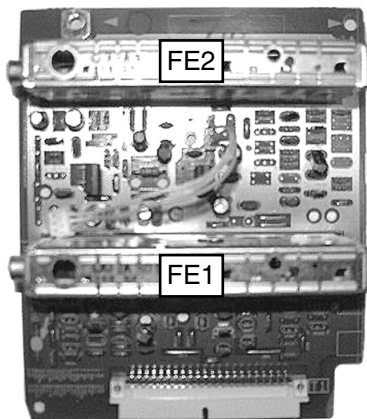
F



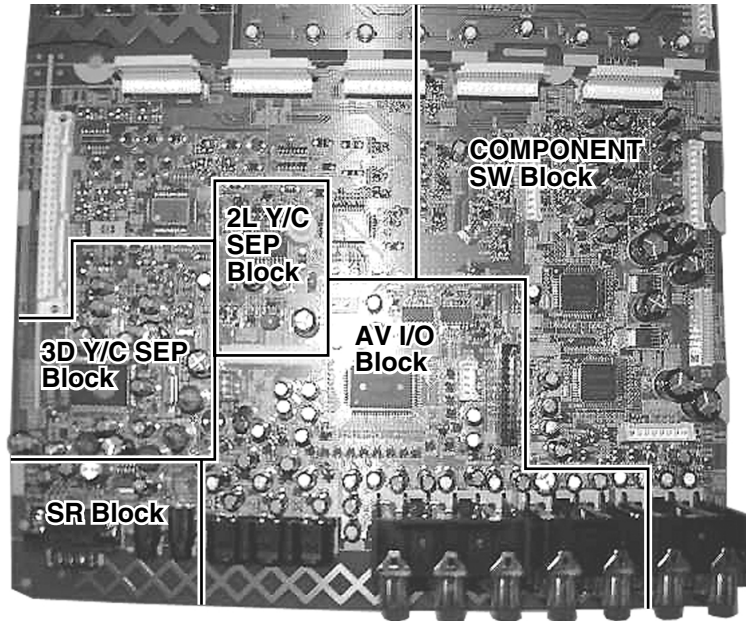


### 3.1.4 TUNER, SIGNAL and DVI SERVICE ASSYS

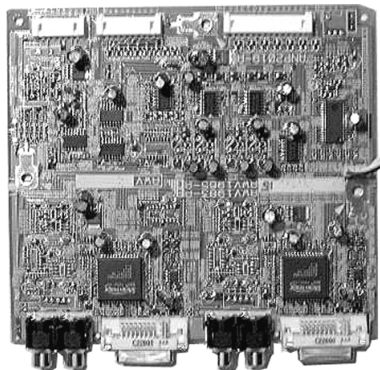
#### A TUNER ASSY



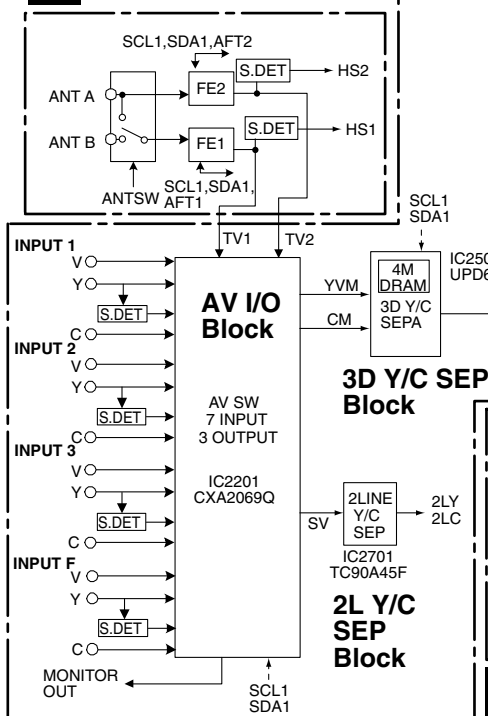
#### B SIGNAL ASSY



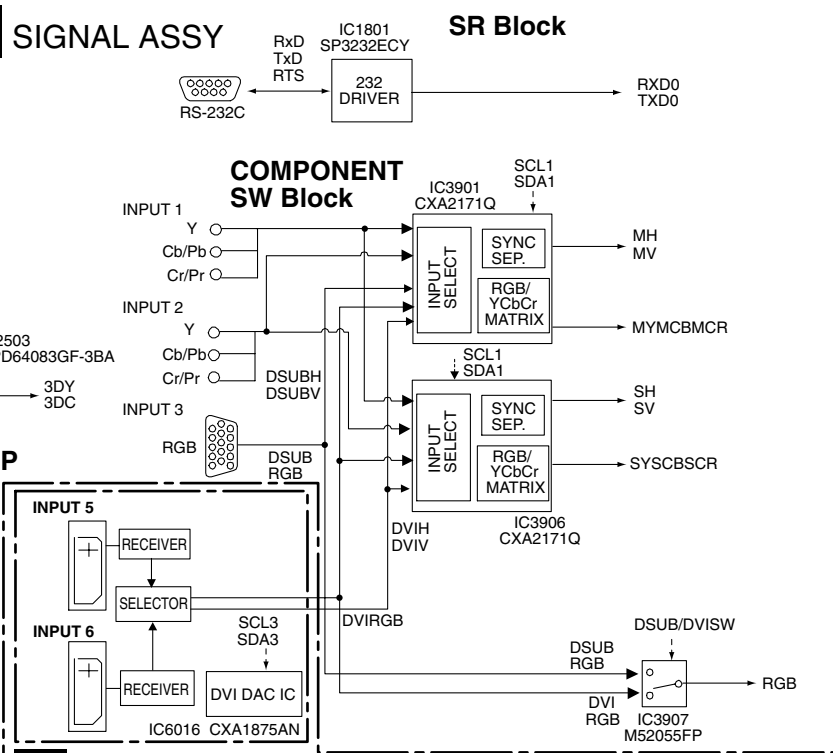
#### I DVI SERVICE ASSY



#### A TUNER ASSY



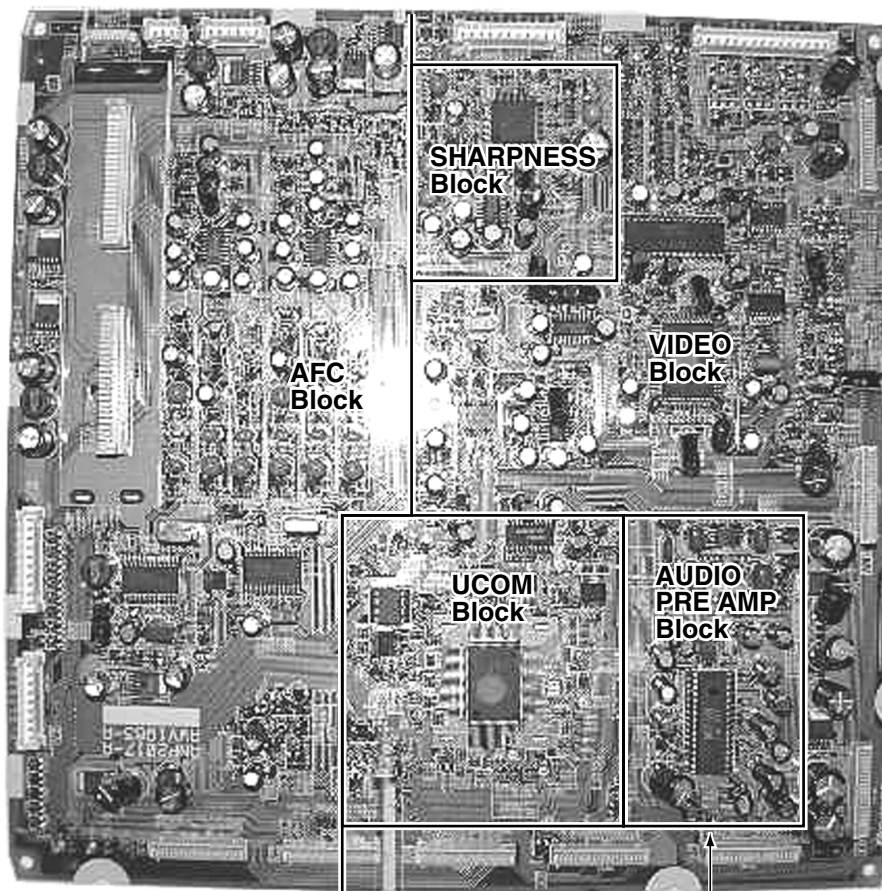
#### B SIGNAL ASSY



#### I DVI SERVICE ASSY

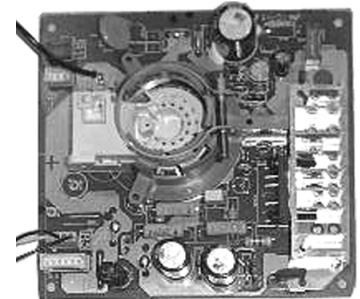
### 3.1.5 VIDEO UCOM and R,G,B CRT DRIVE ASSYS

#### J VIDEO UCOM SERVICE ASSY



Refer to "3.1.3 Audio Block".

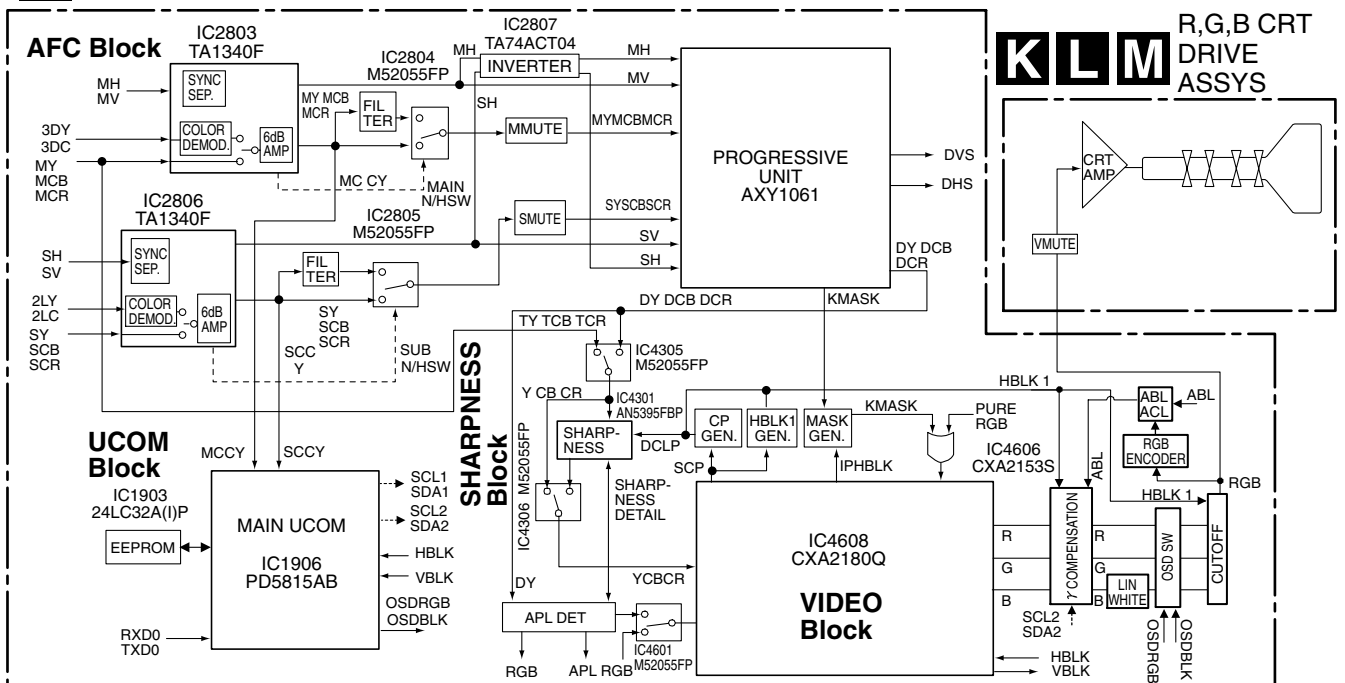
#### K R CRT DRIVE ASSY



#### M B CRT DRIVE ASSY

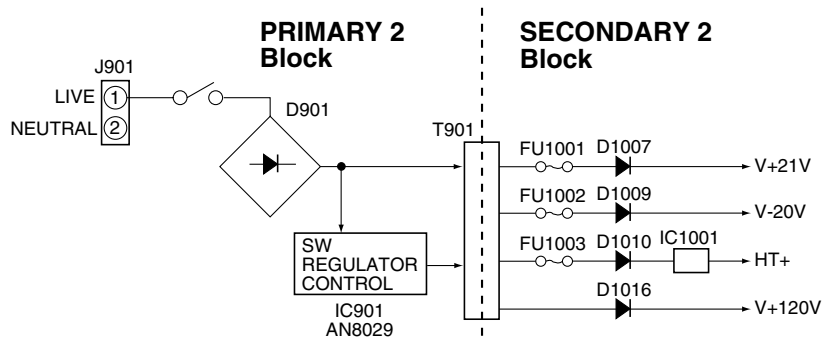
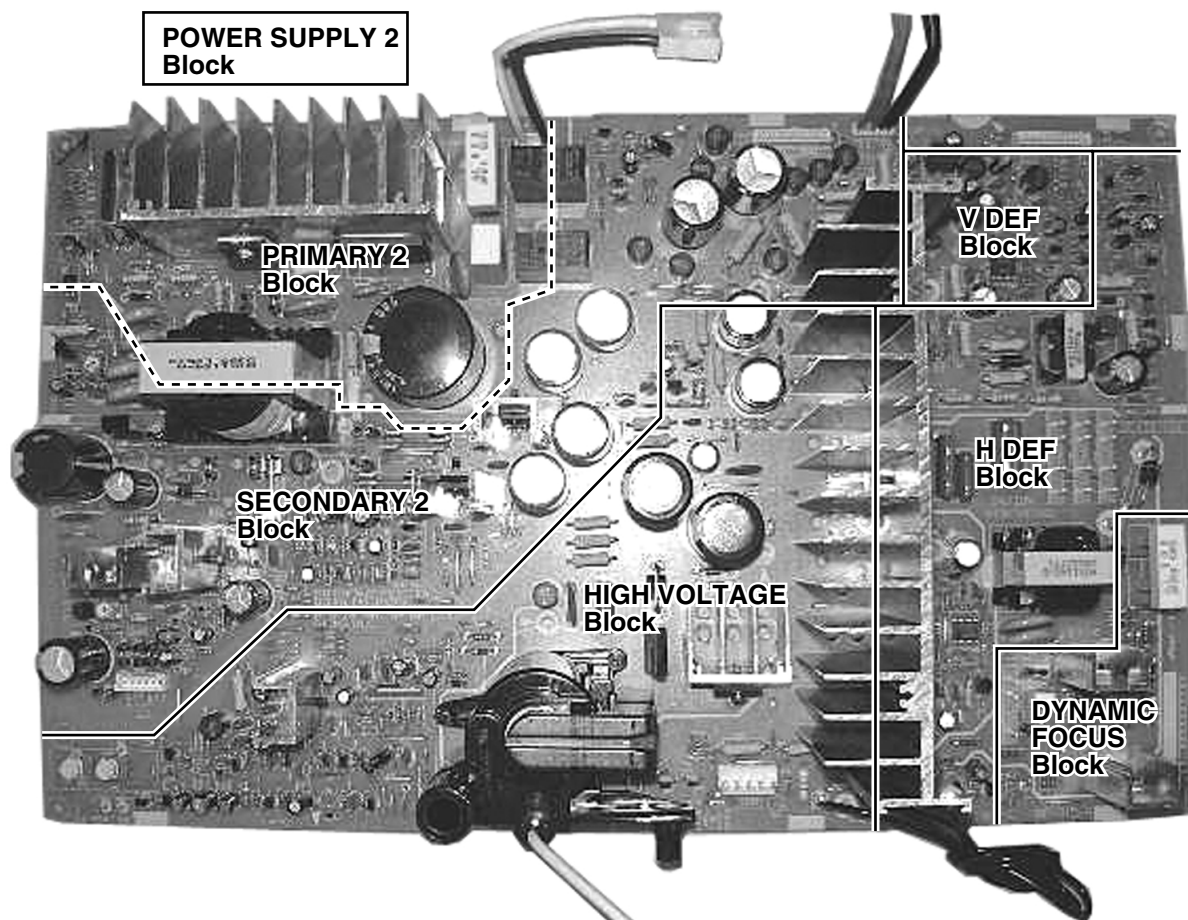
#### L G CRT DRIVE ASSY

#### J VIDEO UCOM SERVICE ASSY

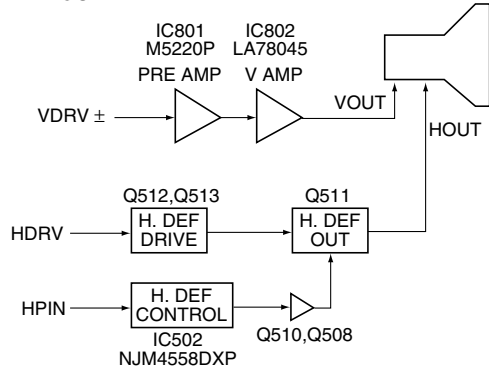


### 3.1.6 DEFLECTION SERVICE ASSY

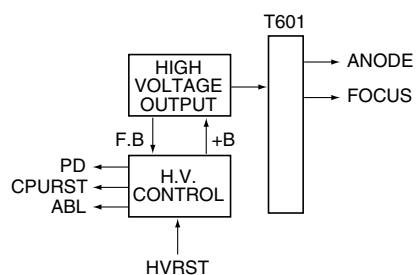
#### N DEFLECTION SERVICE ASSY



#### V DEF Block



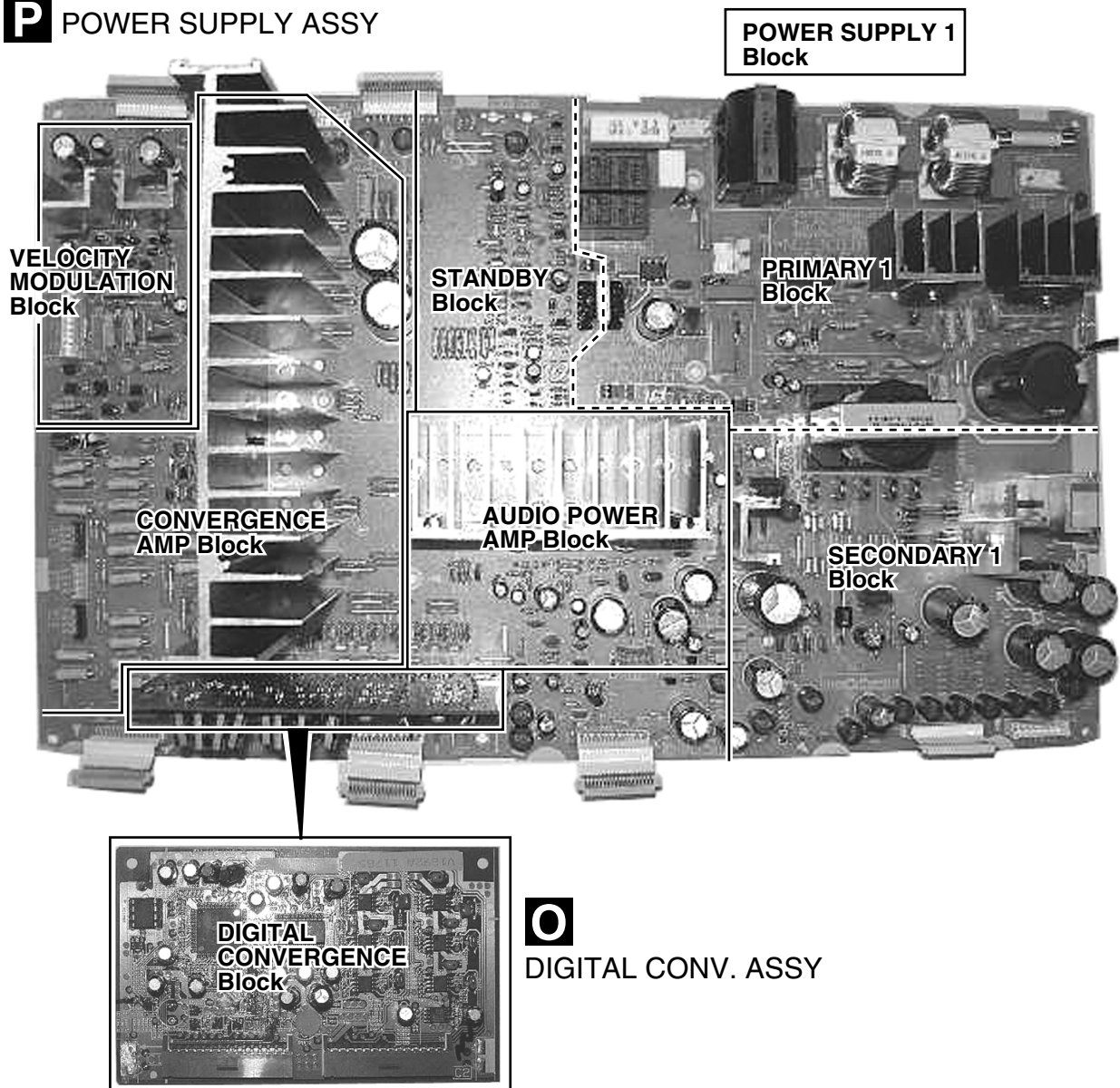
#### HIGH VOLTAGE Block



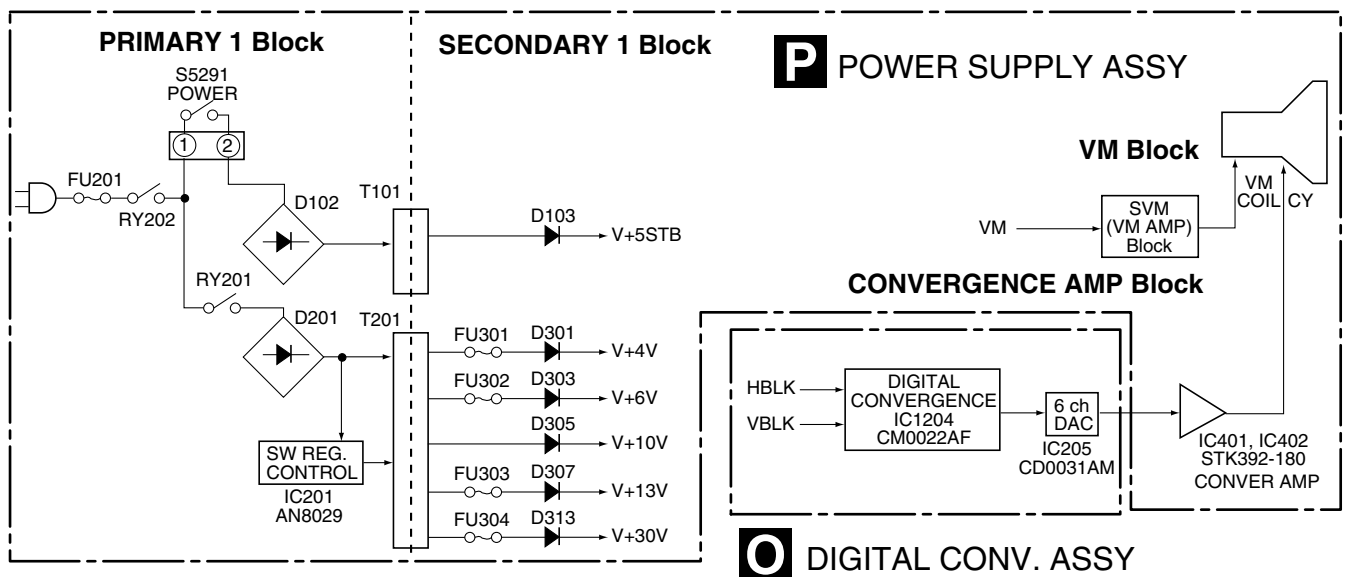


### 3.1.7 DIGITAL CONV. and POWER SUPPLY ASSYS

#### **P** POWER SUPPLY ASSY



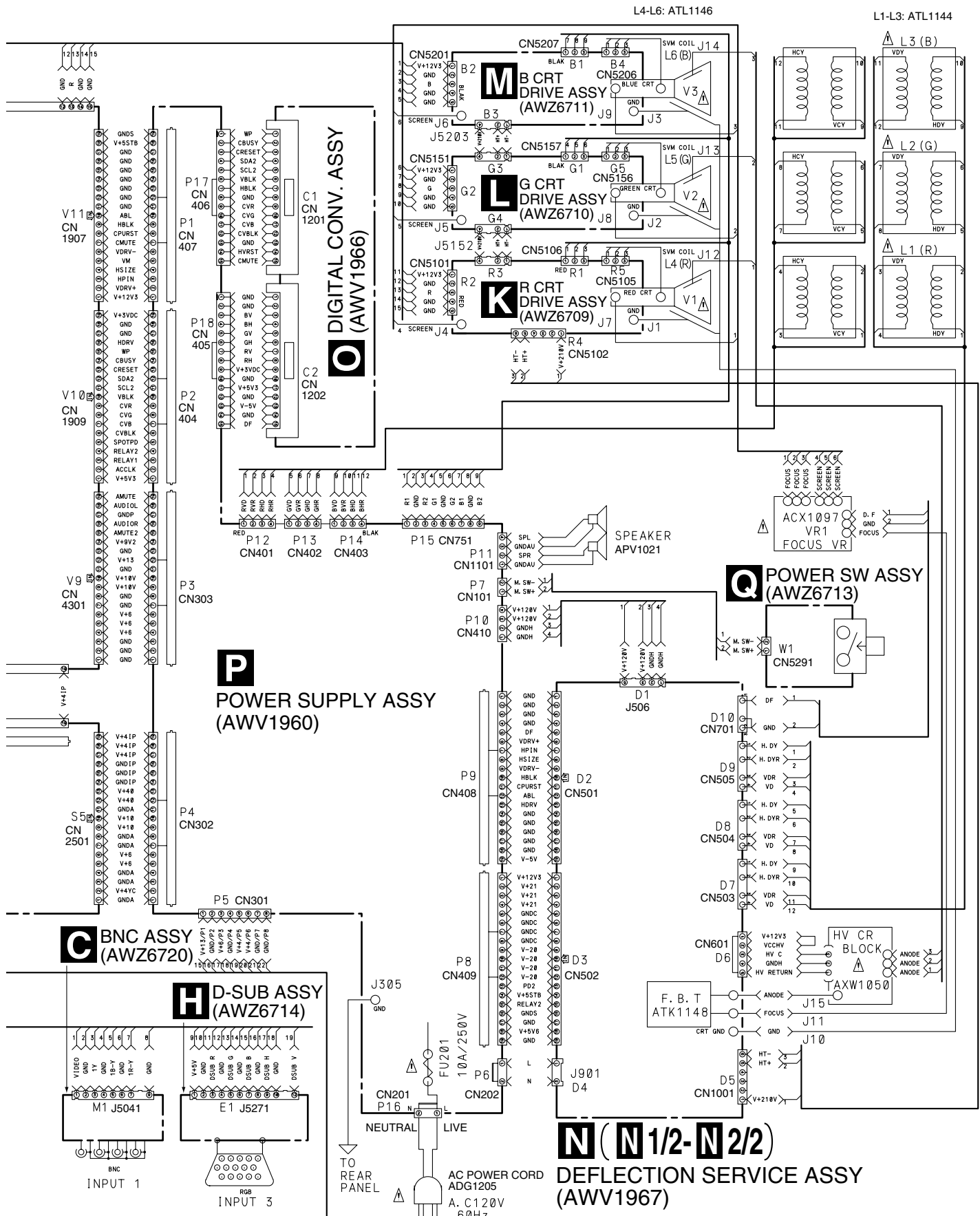
#### **O** DIGITAL CONV. ASSY



## 4



Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



### 3.3 CONNECTOR PIN NAMES AND VOLTAGES

Condition: INPUT 1, Composite signal (color-bar)  
Digital multi-meter, AC120V

<b>N</b> DEFLECTION SERVICE ASSY			<b>P</b> POWER SUPPLY ASSY		
D1 (J506)		DC Voltage (V)	P10 (CN410)		
Pin	Name		Pin	Name	
1	GND H	0	1	GND H	
2	GND H	0	2	GND H	
3	V+120V	120.4	3	V+120V	
4	V+120V	120.4	4	V+120V	
5	DF	1.99	5	DF	

<b>P</b> POWER SUPPLY ASSY			<b>J</b> VIDEO UCOM SERVICE ASSY		
P1 (CN407)		DC Voltage (V)	V11 (CN1907)		
Pin	Name		Pin	Name	
1	V+12V3	11.9	1	V+12V3	
2	VDRV+	3.5	2	VDRV+	
3	HPIN	2.4	3	HPIN	
4	HSIZE	5.1	4	HSIZE	
5	VM	0.7	5	VM	
6	VDRV-	3.4	6	VDRV-	
7	CMUTE	0.05	7	CMUTE	
8	CPURST	12.0	8	CPURST	
9	HBLK	0.8	9	HBLK	
10	ABL	6.2	10	ABL	
11	GND	0	11	GND	
12	GND	0	12	GND	
13	GND	0	13	GND	
14	GND	0	14	GND	
15	GND	0	15	GND	
16	GND	0	16	GND	
17	GND	0	17	GND	
18	V+5STB	5.1	18	V+5STB	
19	GNDS	0	19	GNDS	

<b>P</b> POWER SUPPLY ASSY			<b>J</b> VIDEO UCOM SERVICE ASSY		
P2 (CN404)		DC Voltage (V)	V10 (CN1909)		
Pin	Name		Pin	Name	
1	V+5V3	5.0	1	V+5V	
2	ACCLK	5.0	2	ACCLK	
3	RELAY1	2.1	3	RELAY1	
4	RELAY2	2.5	4	RELAY2	
5	SPOTPD	3.2	5	SPOTPD	
6	CVBLK	0.014	6	CVBLK	
7	CVB	0.7	7	CVB	
8	CVG	0.7	8	CVG	
9	CVR	0.7	9	CVR	
10	VBLK	0.018	10	VBLK	
11	SCL2	2.5	11	SCL2	
12	SDA2	1.8	12	SDA2	
13	CRESET	4.9	13	CRESET	
14	CBUSY	4.9	14	CBUSY	
15	WP	4.9	15	WP	
16	HDRV	1.9	16	HDRV	
17	GND	0	17	GND	
18	GND	0	18	GND	
19	V+3VDC	3.3	19	V+3VDC	

<b>N</b> DEFLECTION SERVICE ASSY			<b>P</b> POWER SUPPLY ASSY		
D2 (CN501)		DC Voltage (V)	P9 (CN408)		
Pin	Name		Pin	Name	
1	GND	0	1	GND	
2	GND	0	2	GND	
3	GND	0	3	GND	
4	GND	0	4	GND	
5	DF	1.99	5	DF	
6	VDRV+	3.5	6	VDRV+	
7	HPIN	2.3	7	HPIN	
8	HSIZE	5.1	8	HSIZE	
9	VDRV-	3.4	9	VDRV-	
10	HBLK	0.85	10	HBLK	
11	CPURST	12.0	11	CPURST	
12	ABL	6.2	12	ABL	
13	HDRV	1.9	13	HDRV	
14	GND	0	14	GND	
15	GND	0	15	GND	
16	GND	0	16	GND	
17	GND	0	17	GND	
18	GND	0	18	GND	
19	V-5V	-4.89	19	V-5V	

<b>N</b> DEFLECTION SERVICE ASSY			<b>P</b> POWER SUPPLY ASSY		
D3 (CN502)		DC Voltage (V)	P8 (CN409)		
Pin	Name		Pin	Name	
1	V+12V3	11.9	1	V+12V3	
2	V+21	23.3	2	V+21	
3	V+21	23.3	3	V+21	
4	V+21	23.3	4	V+21	
5	GNDC	0	5	GNDC	
6	GNDC	0	6	GNDC	
7	GNDC	0	7	GNDC	
8	GNDC	0	8	GNDC	
9	V-20	-23.3	9	V-20	
10	V-20	-23.3	10	V-20	
11	V-20	-23.3	11	V-20	
12	V-20	-23.3	12	V-20	
13	PD2	0.07	13	PD2	
14	V+5STB	5.1	14	V+5STB	
15	RELAY2	2.5	15	RELAY2	
16	GNDS	0	16	GNDS	
17	GND	0	17	GND	
18	V+5V6	5.1	18	V+5V6	
19	GND	0	19	GND	

<b>P</b> POWER SUPPLY ASSY			<b>J</b> VIDEO UCOM SERVICE ASSY		
P3 (CN303)		DC Voltage (V)	V9 (CN4301)		
Pin	Name		Pin	Name	
1	GND	0	1	GND	
2	GND	0	2	GND	
3	GND	0	3	GND	
4	V+6	6.5	4	V+6	
5	V+6	6.5	5	V+6	
6	V+6	6.5	6	V+6	
7	GND	0	7	GND	
8	GND	0.0	8	GND	
9	V+10V	10.0	9	V+10V	
10	V+10V	10.0	10	V+10V	
11	GND	0	11	GND	
12	V+13	14.5	12	V+13	
13	GND	0	13	GND	
14	V+9V2	9.0	14	V+9V2	
15	AMUTE2	0.04	15	AMUTE2	
16	AUDIOR	2.6	16	AUDIOR	
17	GNDP	0	17	GNDP	
18	AUDIOL	2.6	18	AUDIOL	
19	AMUTE	0.2	19	AMUTE	

<b>N</b> DEFLECTION SERVICE ASSY			<b>K</b> R CRT DRIVE ASSY		
D5 (CN1001)		DC Voltage (V)	R4 (CN5102)		
Pin	Name		Pin	Name	
1	V+210V	208	1	V+210V	
2	NC	0	2	NC	
3	NC	0	3	NC	
4	GNDH	0	4	GNDH	
5	HT+	6.4	5	HT+	
6	HT-	0	6	HT-	

**J****VIDEO UCOM  
SERVICE ASSY**

V8 (CN5501)		DC Voltage (V)	S6 (CN2206)	
Pin	Name		Pin	Name
1	LIN	5.1	1	LIN
2	GNDA	0	2	GNDA
3	RIN	5.1	3	RIN
4	GNDA	0	4	GNDA
5	VARL	4.8	5	VARL
6	GNDPRE	0	6	GNDPRE
7	VARR	4.8	7	VARR
8	GNDA	0	8	GNDA
9	V/FSW	0.04	9	V/FSW
10	V/MUTE	0.04	10	V/MUTE
11	CENTSW	0.04	11	CENTSW
12	GNDA	0	12	GNDA
13	MONTVMUTE	0.04	13	MONTVMUTE
14	GNDIP	0	14	GNDIP
15	GNDIP	0	15	GNDIP
16	GNDIP	0	16	GNDIP
17	V+4IP	4.8	17	V+4IP
18	V+4IP	4.8	18	V+4IP
19	V+4IP	4.8	19	V+4IP

**B****SIGNAL ASSY****J****VIDEO UCOM  
SERVICE ASSY**

V7 (CN4602)		DC Voltage (V)	S7 (CN3905)	
Pin	Name		Pin	Name
1	B	3.1	1	B
2	GND	0	2	GNDA
3	G	3.1	3	G
4	GND	0	4	GNDA
5	R	3.1	5	R
6	GND	0	6	GNDA
7	DSUB/DVSW	4.9	7	DSUB/DVSW
8	GND	0	8	GNDA
9	GND	0	9	GNDA
10	GND	0	10	GNDA
11	MCOMPSW	4.9	11	MCOMPSW
12	SCOMPSW	4.9	12	SCOMPSW
13	GND	0	13	GNDA
14	GND	0	14	GNDA
15	GND	0	15	GNDA
16	MH	0.9	16	MH
17	MV	0.02	17	MV
18	GND	0	18	GNDA
19	V+12V2	12.0	19	V+12V2

**B****SIGNAL ASSY****J****VIDEO UCOM  
SERVICE ASSY**

V4 (CN1906)		DC Voltage (V)	S10 (CN2208)	
Pin	Name		Pin	Name
1	RXD0	3.3	1	RXD0
2	TXD0	3.3	2	TXD0
3	ANTSW	3.3	3	ANTSW
4	FMONO	0	4	FMONO
5	SAP1	3.3	5	SAP1
6	MPX	0.02	6	MPX
7	ST1	3.3	7	ST1
8	HS1	1.6	8	HS1
9	AFT1	1.7	9	AFT1
10	AFT2	2.5	10	AFT2
11	HS2	2	11	HS2
12	REMOUT	3.1	12	REMOUT
13	V+5STB	5.1	13	V+5STB
14	GNDS	0	14	GNDS
15	V+3STB	3.3	15	V+3STB
16	SCL1	2.5	16	SCL1
17	SDA1	1.7	17	SDA1
18	TVSW	0.04	18	TVSW
19	3DRST	5.0	19	3DRST

**B****SIGNAL ASSY****P****POWER SUPPLY  
ASSY**

P4 (CN302)		DC Voltage (V)	S5 (CN2501)	
Pin	Name		Pin	Name
1	GND	0	1	GNDA
2	V+4	4.8	2	V+4YC
3	GND	0	3	GNDA
4	GND	0	4	GNDA
5	V+6	6.5	5	V+6
6	V+6	6.5	6	V+6
7	GND	0	7	GNDA
8	GND	0	8	GNDA
9	V+10V	10	9	V+10
10	V+10V	10	10	V+10
11	GND	0	11	GND
12	V+40	40	12	V+40
13	V+40	40	13	V+40
14	GND	0	14	GNDIP
15	GND	0	15	GNDIP
16	GND	0	16	GNDIP
17	V+4	4.9	17	V+4IP
18	V+4	4.9	18	V+4IP
19	V+4	4.9	19	V+4IP

**B****SIGNAL ASSY****J****VIDEO UCOM  
SERVICE ASSY**

V6 (CN2803)		DC Voltage (V)	S8 (CN2701)	
Pin	Name		Pin	Name
1	KIL	0.08	1	KIL
2	FSC	3.0	2	FSC
3	GNDA	0	3	GNDA
4	GNDA	0	4	GNDA
5	GNDA	0	5	GNDA
6	GNDA	0	6	GNDA
7	GNDA	0	7	GNDA
8	2LY	2.4	8	2LY
9	GNDA	0	9	GNDA
10	2LC	2.5	10	2LC
11	GNDA	0	11	GNDA
12	SY	2.2	12	SY
13	GNDA	0	13	GNDA
14	SCB	2.7	14	SCB
15	GNDA	0	15	GNDA
16	SCR	2.7	16	SCR
17	GNDA	0	17	GNDA
18	SH	0.02	18	SH
19	SV	0.02	19	SV

**B****SIGNAL ASSY****I****DVI SERVICE  
ASSY**

H2 (CN6004)		DC Voltage (V)	S2 (CN2205) S12 (CN3904)	
Pin	Name		Pin	Name
1	DVIR	0.03	S2-1	DVIR
2	GND	0	S2-2	GND
3	DVIG	0.01	S2-3	DVIG
4	GND	0	S2-4	GND
5	DVIB	0.01	S2-5	DVIB
6	GND	0	S2-6	GND
7	DVIH	0.009	S2-7	DVIH
8	GND	0	S2-8	GND
9	DVIV	0.009	S2-9	DVIV
10	PDET1	5.0	S2-10	PDET1
11	DAL	6.1	S12-1	DVIL
12	GND	0	S12-2	GND
13	DAR	6.1	S12-3	DVIR
14	GND	0	S12-4	GND

**B****SIGNAL ASSY**

**J**VIDEO UCOM  
SERVICE ASSY

V5 (CN2801)			DC		S9 (CN2601)	
Pin	Name		Voltage (V)		Pin	Name
1	MY		2.2		1	MY
2	GND		0		2	GND
3	MCB		2.7		3	MCB
4	GND		0		4	GND
5	MCR		2.7		5	MCR
6	GND		0		6	GND
7	3DY		4.0		7	3DY
8	GND		0		8	GND
9	3DC		4.4		9	3DC
10	GND		0		10	GND
11	GND		0		11	GND
12	GND		0		12	GND
13	GND		0		13	GND
14	GND		0		14	GND
15	GND		0		15	GND
16	GND		0		16	GND
17	GND		0		17	GND
18	GND		0		18	GND
19	GND		0		19	GND

**B**

## SIGNAL ASSY

**J**VIDEO UCOM  
SERVICE ASSY

V2 (CN1901)			DC		H1 (CN6005)	
Pin	Name		Voltage (V)		Pin	Name
1	SDA3		4.8		1	SDA3
2	SCL3		4.9		2	SCL3
3	PTT		4.0		3	PTT
4	MOFF/ML		5.0		4	MOFF/ML
5	DVIRST		5.0		5	DVIRST
6	MC		0.4		6	MC
7	MD		0.4		7	MD
8	MDET		5.0		8	MDET
9	V+5STB		5.1		9	V+5STB
10	GND		0		10	GND

**I**DVI SERVICE  
ASSY**B**

## SIGNAL ASSY

S1 (CN1802)			DC		L1 (CN5030)	
Pin	Name		Voltage (V)		Pin	Name
1	V+5STB		5.1		1	V+5STB
2	GNDS		0		2	GNDS
3	REMIN		3.0		3	REMIN

**F**REMOTE SENSOR  
ASSY**B**

## SIGNAL ASSY

S11 (CN3901)			DC		M1 (J5041)	
Pin	Name		Voltage (V)		Pin	Name
1	VIDEO		0.01		1	VIDEO
2	GND		0		2	GND
3	1Y		0.01		3	1Y
4	GND		0		4	GND
5	1B-Y		0.01		5	1B-Y
6	GND		0		6	GND
7	1R-Y		0.01		7	1R-Y
8	GND		0		8	NC
9	GND		0		9	GND

**C**

## BNC ASSY

**J**VIDEO UCOM  
SERVICE ASSY

V1 (CN1904)			DC		K1 (CN5001)	
Pin	Name		Voltage (V)		Pin	Name
1	V+9V		9.0		1	V+9V
2	V+5STB		5.1		2	V+5STB
3	KEY		3.3		3	KEY
4	RLS		3.5		4	RLS
5	GNDS		0		5	GNDS
6	FLASH		3.3		6	FLASH

**D**FRONT CONTROL  
ASSY**P**POWER SUPPLY  
ASSY

P5 (CN301)			DC		H3 (CN6001)	
Pin	Name		Voltage (V)		Pin	Name
1	V+13		14.5		1	V+13
2	GND		0		2	GND
3	V+6		6.5		3	V+6
4	GND		0		4	GND
5	V+4		4.9		5	V+4
6	V+4		4.9		6	V+4
7	GND		0		7	GND
8	GND		0		8	GND

**I**DVI SERVICE  
ASSY**B**

## SIGNAL ASSY

S3 (CN2204)			DC		F1 (CN5252)	
Pin	Name		Voltage (V)		Pin	Name
1	V+12VA		12.0		1	V+12VA
2	GND		0		2	GND
3	FR		5.1		3	R
4	GND		0		4	GND
5	FL		5.1		5	L
6	GND		0		6	GND
7	FV		0.01		7	VIDEO
8	GND		0.0		8	GND
9	FC		2.8		9	C
10	GND		0		10	GND
11	FY		0.01		11	Y
12	S2		2.8		12	S2

**G**FRONT INPUT  
ASSY**K**

## R CRT DRIVE ASSY

**L**

## G CRT DRIVE ASSY

**M**

## B CRT DRIVE ASSY

**J**VIDEO UCOM  
SERVICE ASSY

V12 (CN4601)		DC		R2 (CN5101) G2 (CN5151) B2 (CN5201)	
Pin	Name	Voltage (V)		Pin	Name
1	V+12V3	11.9		B2-1	12V
2	GND	0		B2-2	GND
3	B	3.5		B2-3	B OUT
4	GND	0		B2-4	GND
5	GND	0		B2-5	GND
6	V+12V3	11.9		G2-1	12V
7	GND	0		G2-2	GND
8	G	3.5		G2-3	G OUT
9	GND	0		G2-4	GND
10	GND	0		G2-5	GND
11	V+12V3	11.9		R2-1	12V
12	GND	0		R2-2	GND
13	R	3.5		R2-3	R OUT
14	GND	0		R2-4	GND
15	GND	0		R2-5	GND

**K**

## R CRT DRIVE ASSY

**L**

## G CRT DRIVE ASSY

**M**

## B CRT DRIVE ASSY

R3 (J5152) G3 (J5203) B3 (J5203)		DC	
Pin	Name	Voltage (V)	
1	HT-	0	
2	HT+	6.5	
3	NC	-	
4	210V	207.0	

**B**

## SIGNAL ASSY

**H**

## D-SUB ASSY

S4 (CN3903)			DC		E1 (J5271)	
Pin	Name		Voltage (V)		Pin	Name
1	V+5V		4.9		1	V+5V
2	GND		0		2	GND
3	RGB R		0.01		3	DSUB R
4	GND		0		4	GND
5	RGB G		0.01		5	DSUB G
6	GND		0		6	GND
7	RGB B		0.01		7	DSUB B
8	GND		0		8	GND
9	RGB H		0.01		9	DSUB H
10	GND		0		10	GND
11	RGB V		0.01		11	NC
12	RGB V		0.01		12	DSUB V

**P**  
POWER SUPPLY  
ASSY

P15 (CN751)		DC Voltage (V)	R1 (CN5106) G1 (CN5157) B1 (CN5207)	
Pin	Name		Pin	Name
1	R1	58.6	R1-1	R1
2	GND	0	R1-2	GND
3	R2	59.3	R1-3	R2
4	G1	59.3	G1-1	G1
5	GND	0	G1-2	GND
6	G2	59.3	G1-3	G2
7	B1	59.3	B1-1	B1
8	GND	0	B1-2	GND
9	B2	59.3	B1-3	B2

**N**  
DEFLECTION SERVICE ASSY

D6 (CN601)		DC Voltage (V)
Pin	Name	
1	V+12V3	11.9
2	VCCHV	11.9
3	HV C	5.1
4	GNDH	0
5	HV RETURN	-

**P**  
POWER SUPPLY  
ASSY

P17 (CN406)		DC Voltage (V)	C1 (CN1201)	
Pin	Name		Pin	Name
1	WP	5.0	1	WP
2	CBUSY	4.9	2	CBUSY
3	CRESET	4.8	3	CRESET
4	SDA2	1.8	4	CSDA
5	SCL2	2.5	5	CSCL
6	VBLK	0.7	6	VBLK2
7	HBLK	0.8	7	DHBLK
8	GND	0	8	GND
9	CVR	0.7	9	CVR
10	CVG	0.7	10	CVG
11	CVB	0.7	11	CVB
12	CVBLK	0.02	12	CVBLK
13	GND	0	13	GND
14	HVRST	3.4	14	HVRST
15	CMUTE	0.05	15	CMUTE

**P**  
POWER SUPPLY ASSY

P11 (CN1101)		DC Voltage (V)
Pin	Name	
1	GND AU	0
2	SPR	0.12
3	GND AU	0
4	SPL	0.12

**K** R CRT DRIVE ASSY  
**L** G CRT DRIVE ASSY  
**M** B CRT DRIVE ASSY

**P**  
POWER SUPPLY  
ASSY

P18 (CN405)		DC Voltage (V)	C2 (CN1202)	
Pin	Name		Pin	Name
1	GND	0	1	GND
2	GND	0	2	GND
3	BV	-130mV	3	BV
4	BH	-48mV	4	BH
5	GV	-130mV	5	GV
6	GH	-150mV	6	GH
7	RV	-160mV	7	RV
8	RH	-170mV	8	RH
9	V+3VDC	3.3	9	V+3V
10	GND	0	10	GND
11	V+5V3	5.0	11	V+5V
12	GND	0	12	GND
13	V-5V	-4.8	13	V-5V
14	GND	0	14	GND
15	DF	2.0	15	HV PARA

**O**  
DIGITAL CONV.  
ASSY

**A**  
TUNER ASSY

RF SWITCH		DC Voltage (V)	J5301	
Pin	Name		Pin	Name
1	MODE SELECT	0.06	4	MODE SELECT
2	GND	0	3	NC
3	V+9V	9.0	2	GND
			1	V+9V

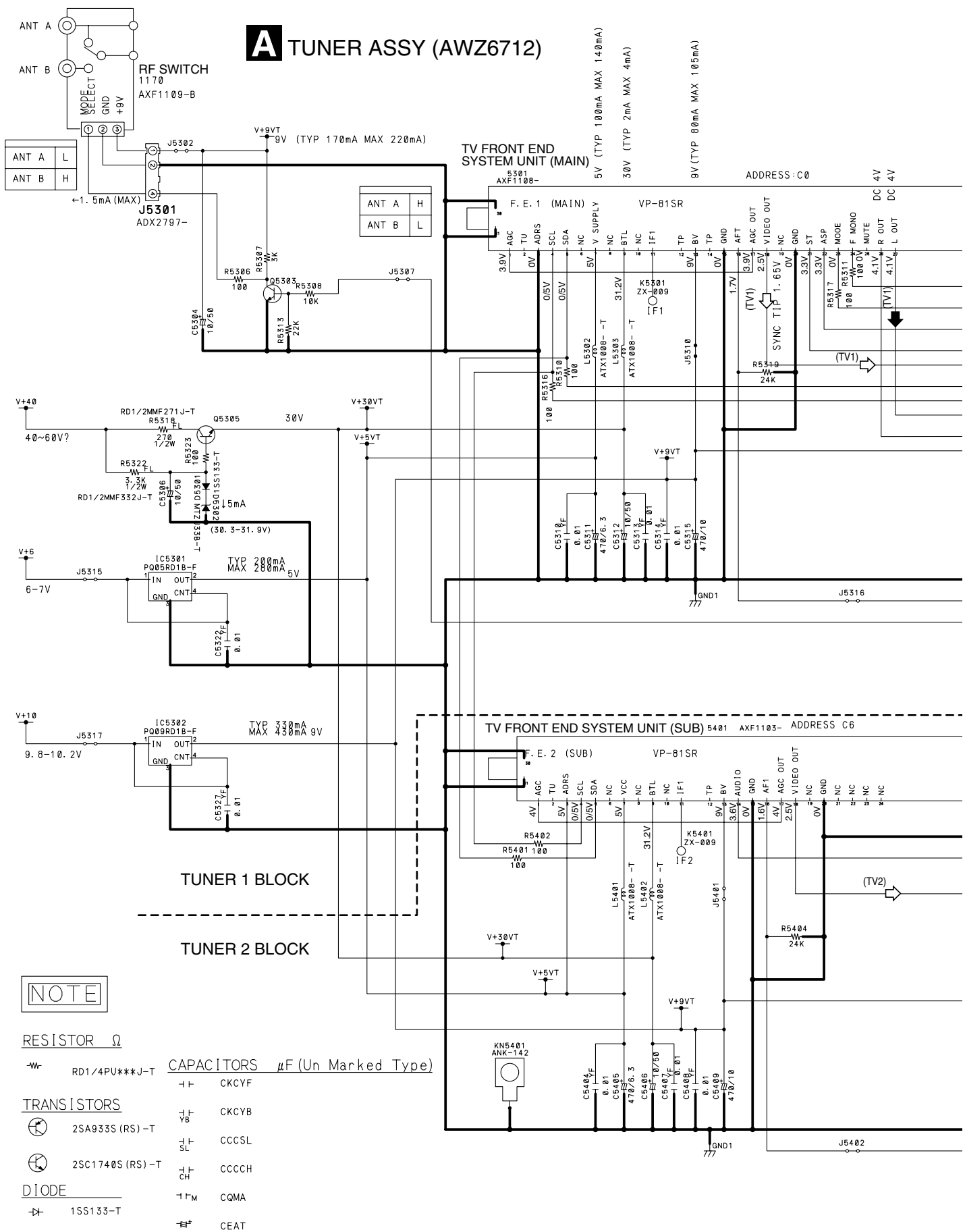
**B**  
SIGNAL ASSY

**A**  
TUNER ASSY

S13 (CN2207)		DC Voltage (V)	T1 (CN5302)	
Pin	Name		Pin	Name
1	GND	0	1	GND
2	GND	0	2	GND
3	L1	4.1	3	L1
4	GND	0	4	GND
5	R1	4.1	5	R1
6	GND	0	6	GND
7	AU	3.6	7	AU
8	GND	0	8	GND
9	AFT2	2.2	9	AFT2
10	HS2	1.5	10	HS2
11	V1	4	11	V1
12	GND	0	12	GND
13	V+10	10.0	13	V+10
14	GND	0	14	GND
15	V+6	6.5	15	V+6
16	V+40	39.0	16	V+40
17	V2	2.5	17	V2
18	GND	0	18	GND
19	DATA	1.8	19	DATA
20	CLK	2.5	20	CLK
21	GND	0	21	GND
22	GND	0	22	GND
23	GND	0	23	GND
24	GND	0	24	GND
25	L1	4.1	25	L1
26	GND	0	26	GND
27	R1	4.1	27	R1
28	GND	0	28	GND
29	FMONO	0.02	29	FMONO
30	MPX1	0.8	30	MPX1
31	SAP	3.3	31	SAP
32	ST1	3.3	32	ST1
33	V1	3.7	33	V1
34	GND	0	34	GND
35	V+10	10.0	35	V+10
36	GND	0	36	GND
37	V+6	6.5	37	V+6
38	V+40	39.0	38	V+40
39	V2	2.5	39	V2
40	HS1	1.5	40	HS1
41	AFT1	3.0	41	AFT1
42	ANTSW	3.3	42	ANTSW
43	GND	0	43	GND
44	GND	0	44	GND

### 3.4 TUNER ASSY

#### A TUNER ASSY (AWZ6712)



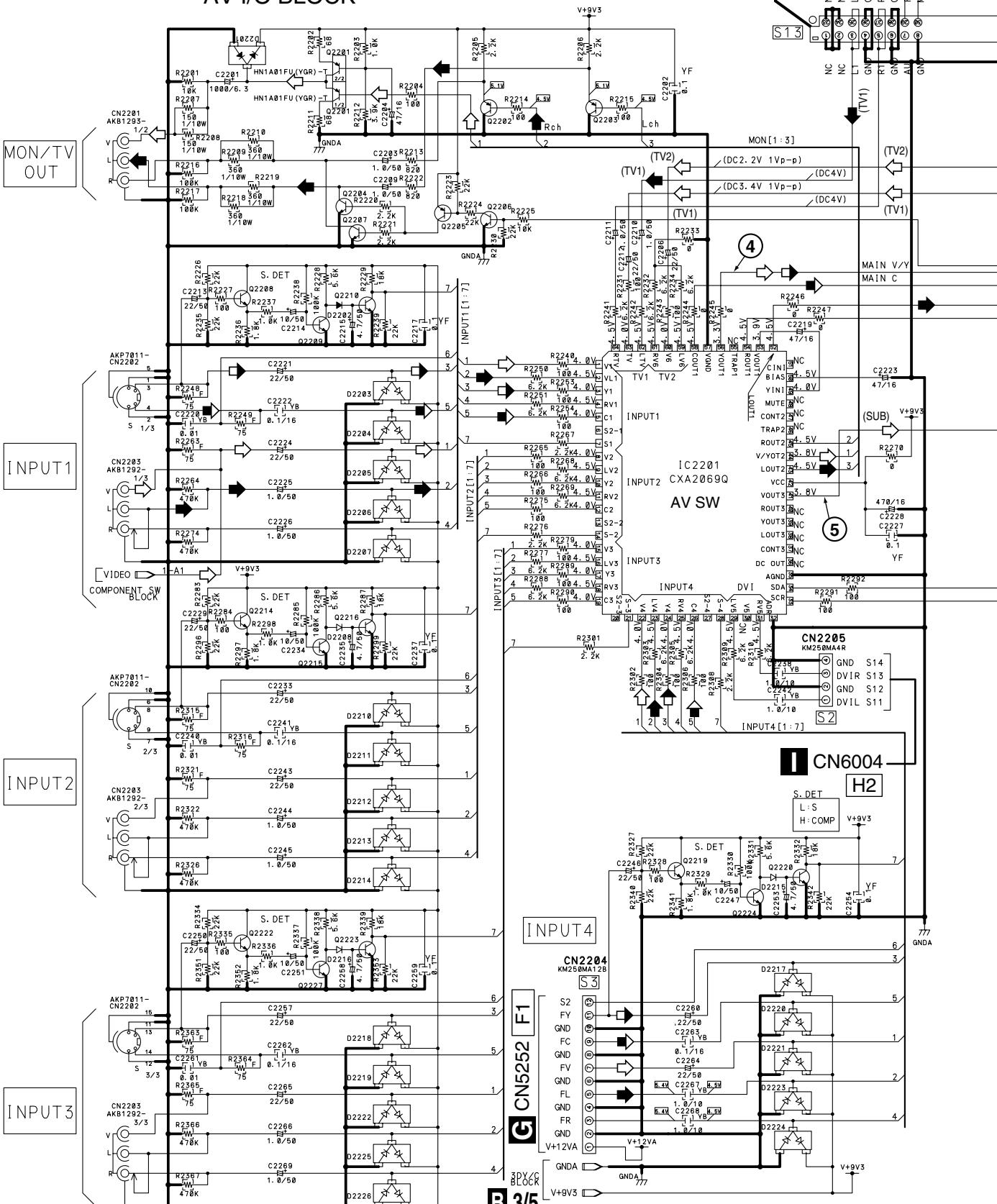




# 3.5 SIGNAL ASSY (1/5)

## B 1/5 SIGNAL ASSY (AWZ6716)

• AV I/O BLOCK



B 1/5

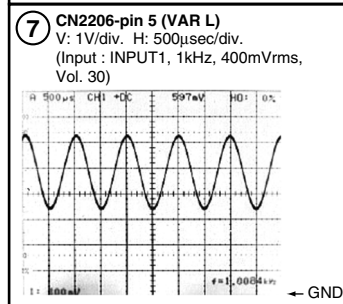
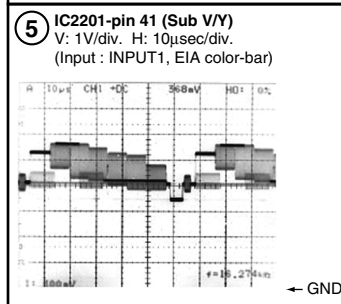
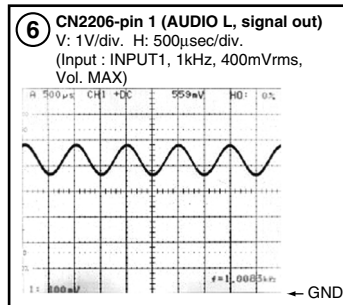
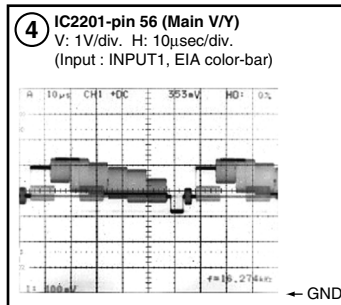


**B 1/5**

## WAVEFORMS and VOLTAGES

Note : The encircled numbers denote measuring point in the schematic diagram.

### B 1/5 SIGNAL ASSY



#### IC2201 (CXA2069Q)

Pin	Voltage (V)	Pin	Voltage (V)	Pin	Voltage (V)
1	3.9	23	4.5	45	4.5
2	4.5	24	3.9	46	3.7
3	3.9	25	4.5	47	4.4
4	4.5	26	4.4	48	-
5	4.4	27	-	49	3.9
6	-	28	4.9	50	4.5
7	4.9	29	4.5	51	4.4
8	3.9	30	4.0	52	4.5
9	4.5	31	4.5	53	3.6
10	3.9	32	0	54	4.5
11	4.5	33	0/5	55	3.7
12	4.4	34	0/5	56	3.2
13	-	35	0	57	0
14	4.9	36	-	58	4.2
15	3.9	37	4.4	59	0.4
16	4.5	38	4.5	60	4.8
17	3.9	39	3.7	61	0.4
18	4.5	40	4.5	62	4.5
19	4.4	41	3.6	63	4.8
20	-	42	9.0	64	4.5
21	4.9	43	4.5		
22	3.9	44	3.5		

#### IC2202 (MC14066BF)

Pin	Voltage (V)	Pin	Voltage (V)
1	4.5	8	4.5
2	4.5	9	4.5
3	4.5	10	4.5
4	4.5	11	4.5
5	0/12	12	0/12
6	0/12	13	0/12
7	0	14	12

#### IC2203 (MC14066BF)

Pin	Voltage (V)	Pin	Voltage (V)
1	4.5	8	4.8
2	4.5/4.8	9	4.5/4.8
3	4.5/4.8	10	4.5/4.8
4	4.8	11	4.5
5	0/12	12	0/12
6	0/12	13	0/12
7	0	14	12

### B 2/5 SIGNAL ASSY

#### IC3901 (CXA2171Q)

Pin	Voltage (V)	Pin	Voltage (V)	Pin	Voltage (V)
1	2.9	17	0	33	2.9
2	2.9	18	1.0	34	2.9
3	2.9	19	0	35	2.9
4	1.0	20	2.9	36	1.0
5	1.0	21	0	37	1.0
6	0	22	0.2	38	0
7	2.9	23	0	39	2.5
8	2.9	24	0	40	5
9	2.9	25	2.1	41	2.9
10	1.0	26	2.1	42	2.9
11	1.0	27	1.5	43	2.9
12	5.0	28	5.0	44	1.0
13	2.4	29	3.2	45	1.0
14	2.4	30	0-5	46	0
15	3.3	31	0-5	47	2.5
16	2.4	32	0	48	0

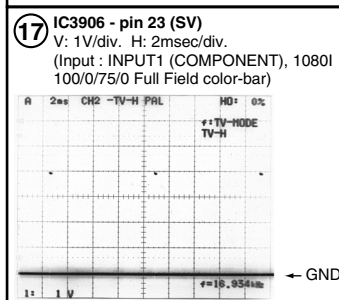
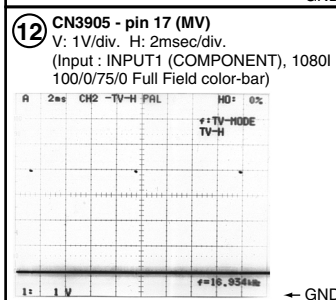
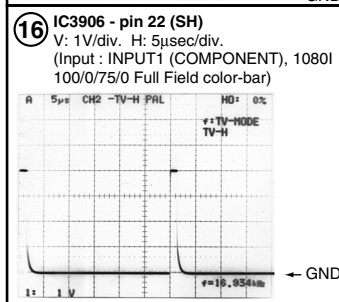
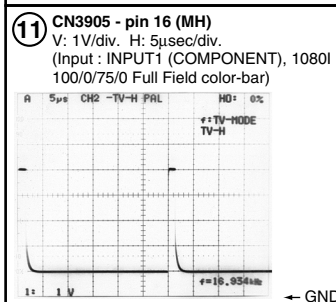
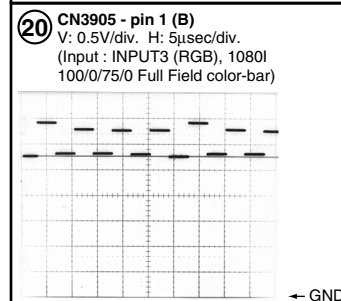
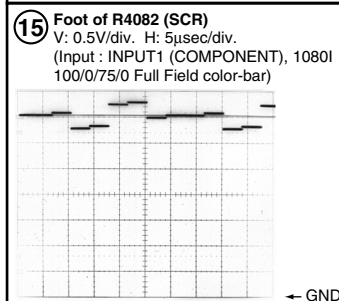
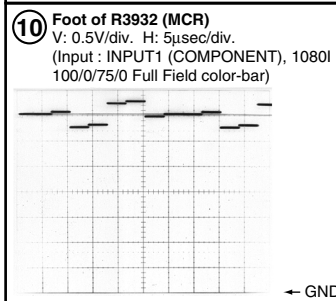
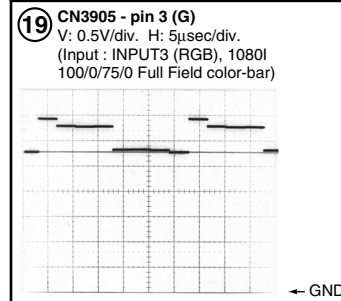
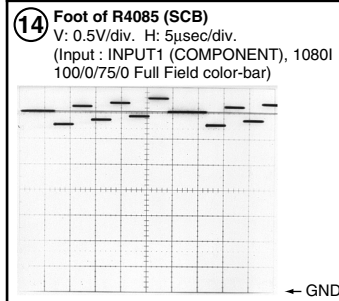
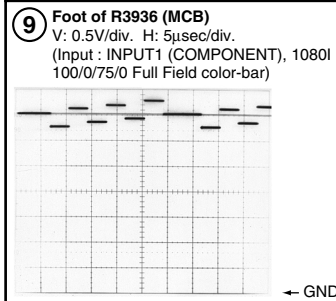
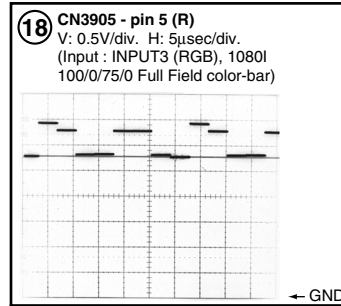
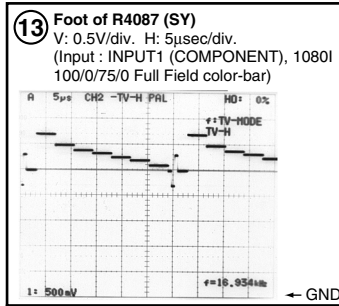
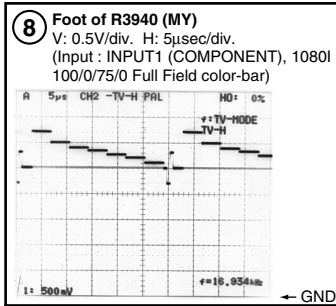
#### IC3906 (CXA2171Q)

Pin	Voltage (V)	Pin	Voltage (V)	Pin	Voltage (V)
1	2.9	17	0	33	2.9
2	2.9	18	1.0	34	2.9
3	2.9	19	0	35	3.0
4	1.0	20	2.9	36	1.0
5	1.0	21	0	37	1.0
6	0	22	0	38	0
7	2.9	23	0	39	2.5
8	2.9	24	0	40	5
9	2.9	25	2.1	41	2.8
10	1.0	26	2.1	42	2.8
11	1.0	27	1.5	43	2.8
12	5.0	28	5.0	44	1.0
13	2.5	29	3.2	45	1.0
14	2.4	30	0-5	46	0
15	3.3	31	0-5	47	2.5
16	2.4	32	5.0	48	0

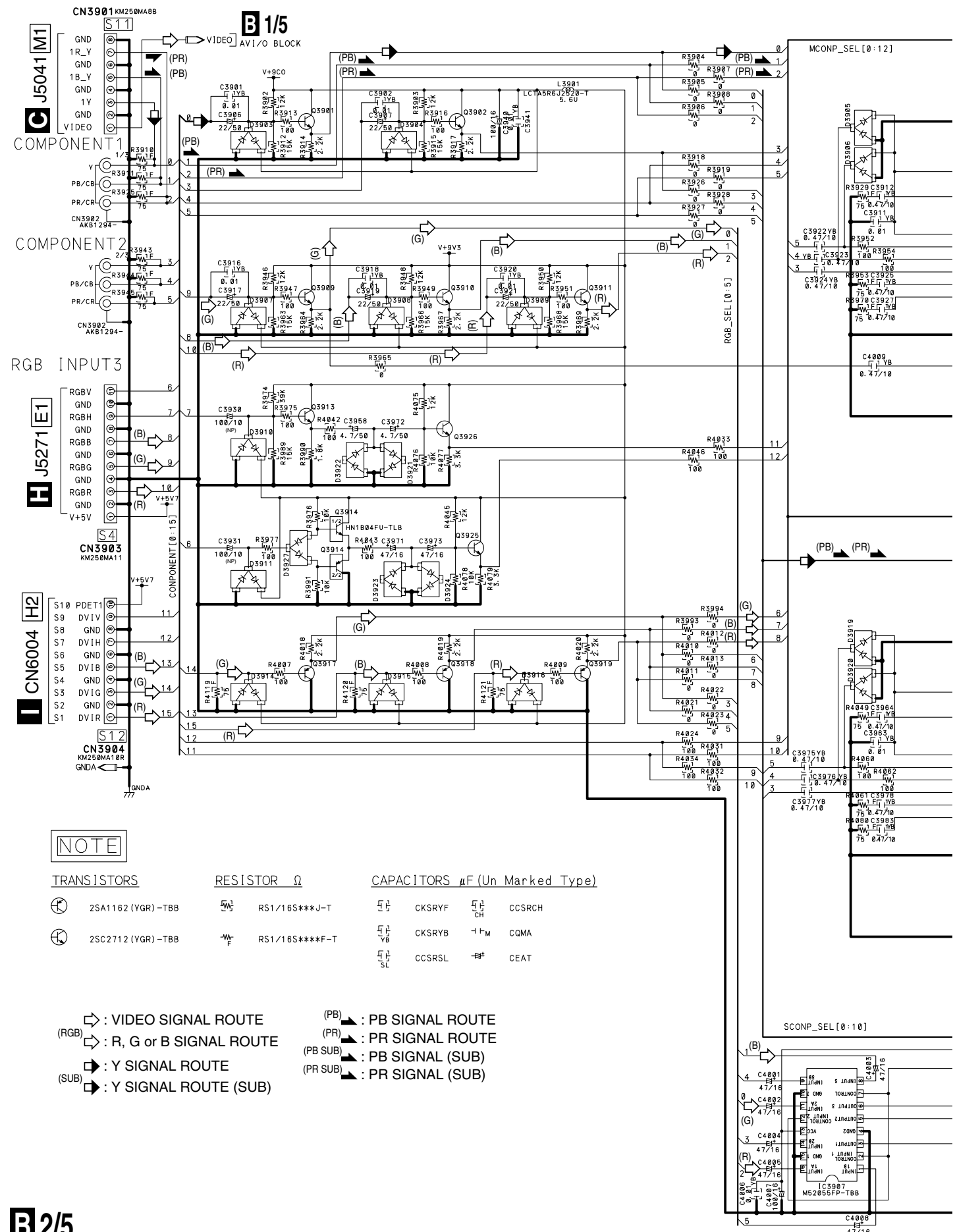
#### IC3907 (M52055FP)

Pin	Voltage (V)
1	4.6
2	5.0
3	3.2
4	0
5	3.2
6	3.2
7	5.0
8	4.6
9	4.6
10	0
11	4.6
12	5.0
13	9.0
14	4.6
15	0
16	4.6

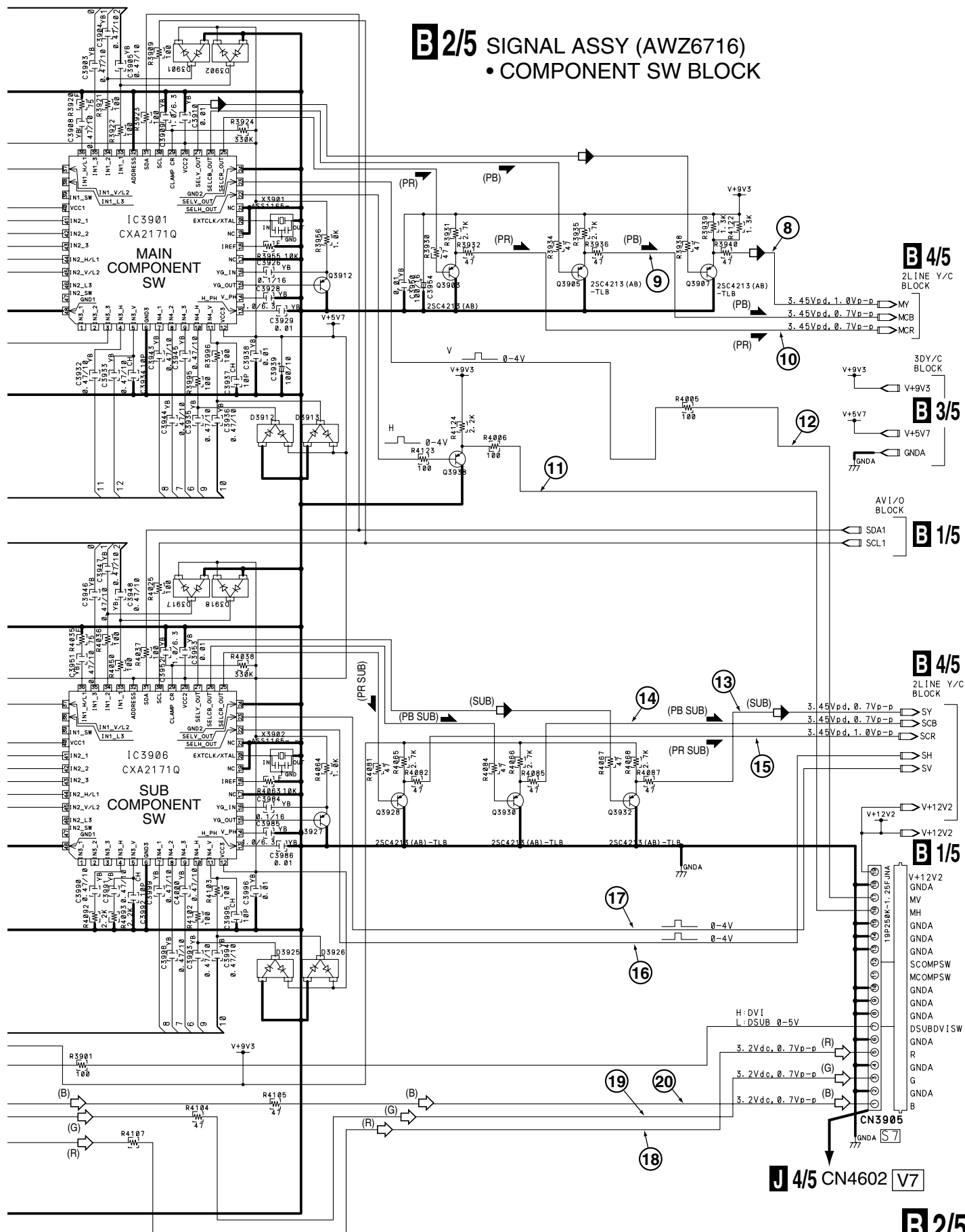
# B2/5 SIGNAL ASSY



### 3.6 SIGNAL ASSY (2/5)



# **B 2/5** SIGNAL ASSY (AWZ6716) • COMPONENT SW BLOCK





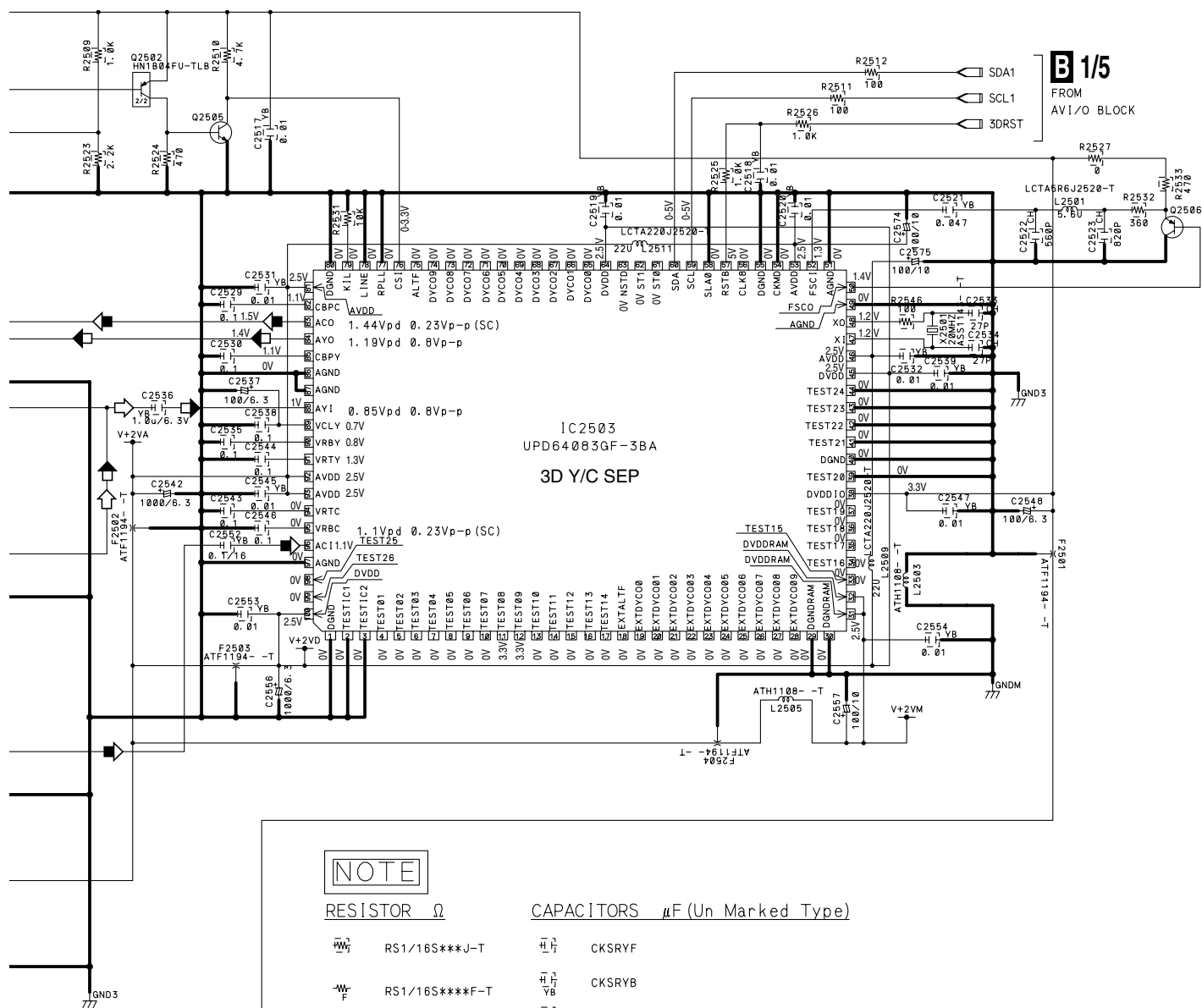
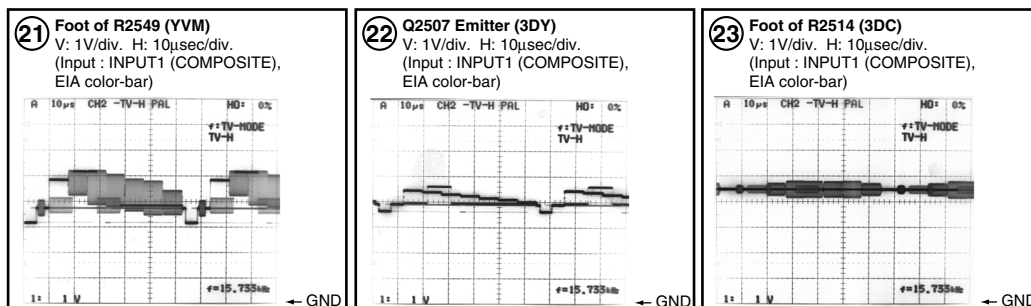


# **B 3/5** SIGNAL ASSY (AWZ6716) • 3D Y/C SEP BLOCK

⇒ : VIDEO SIGNAL ROUTE

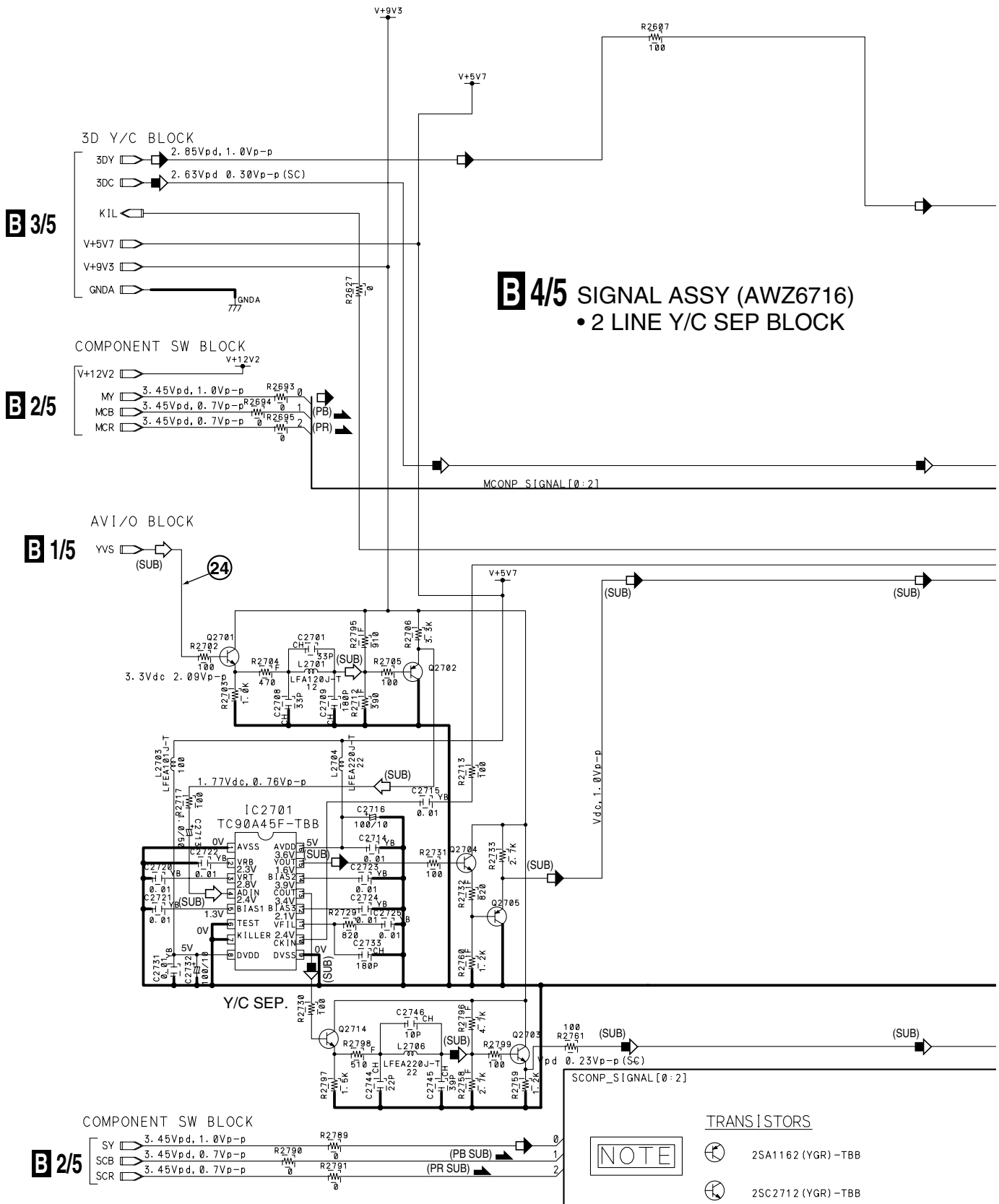
⇒ : Y SIGNAL ROUTE

⇒ : C SIGNAL ROUTE



○ : The power supply is shown with the marked box.

### 3.8 SIGNAL ASSY (4/5)

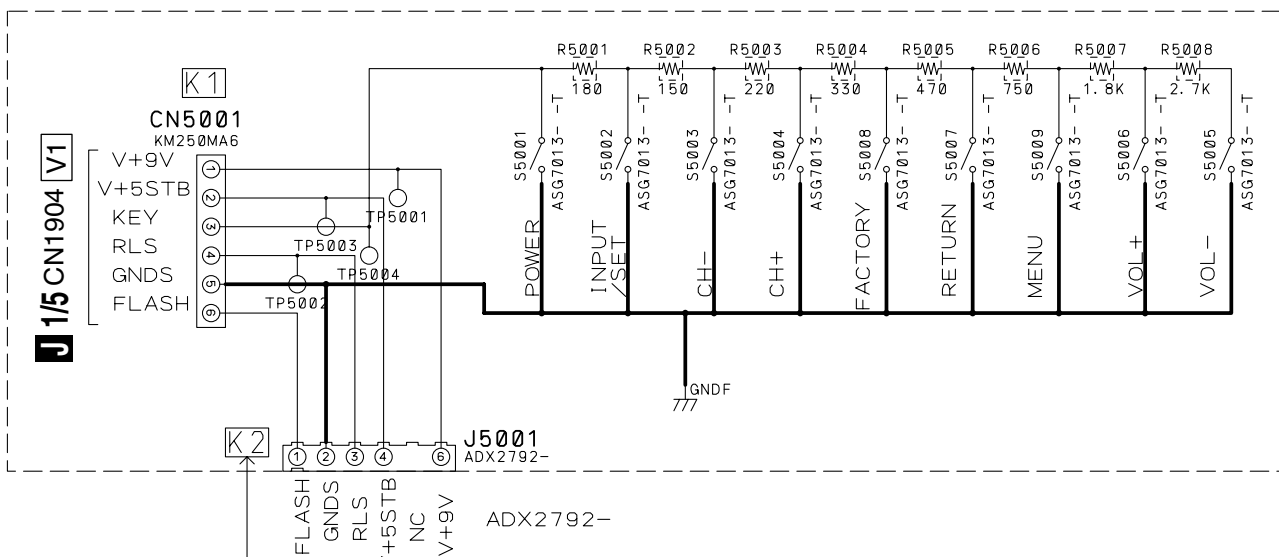


**B 4/5**

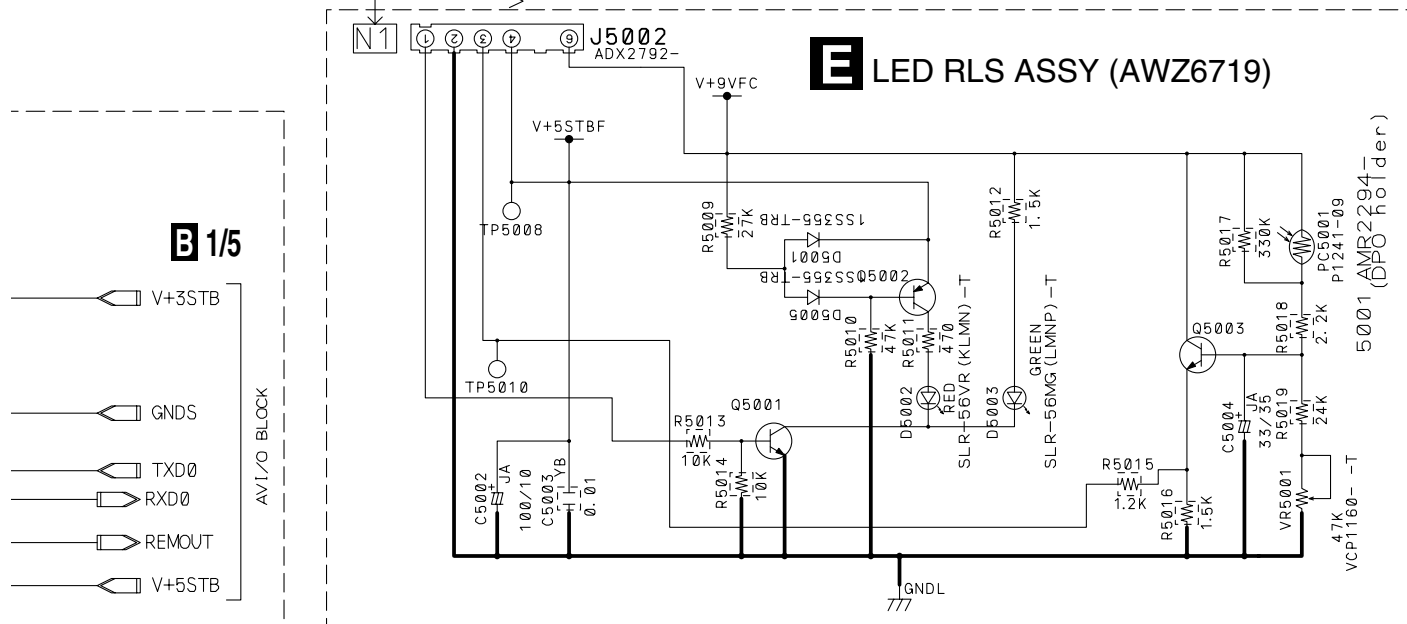




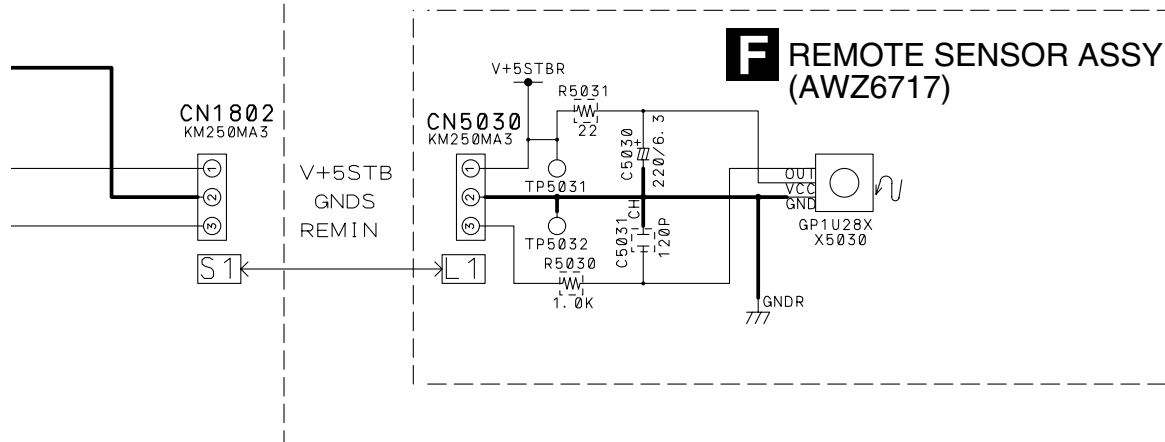
**D** FRONT CONTROL ASSY (AWZ6718)



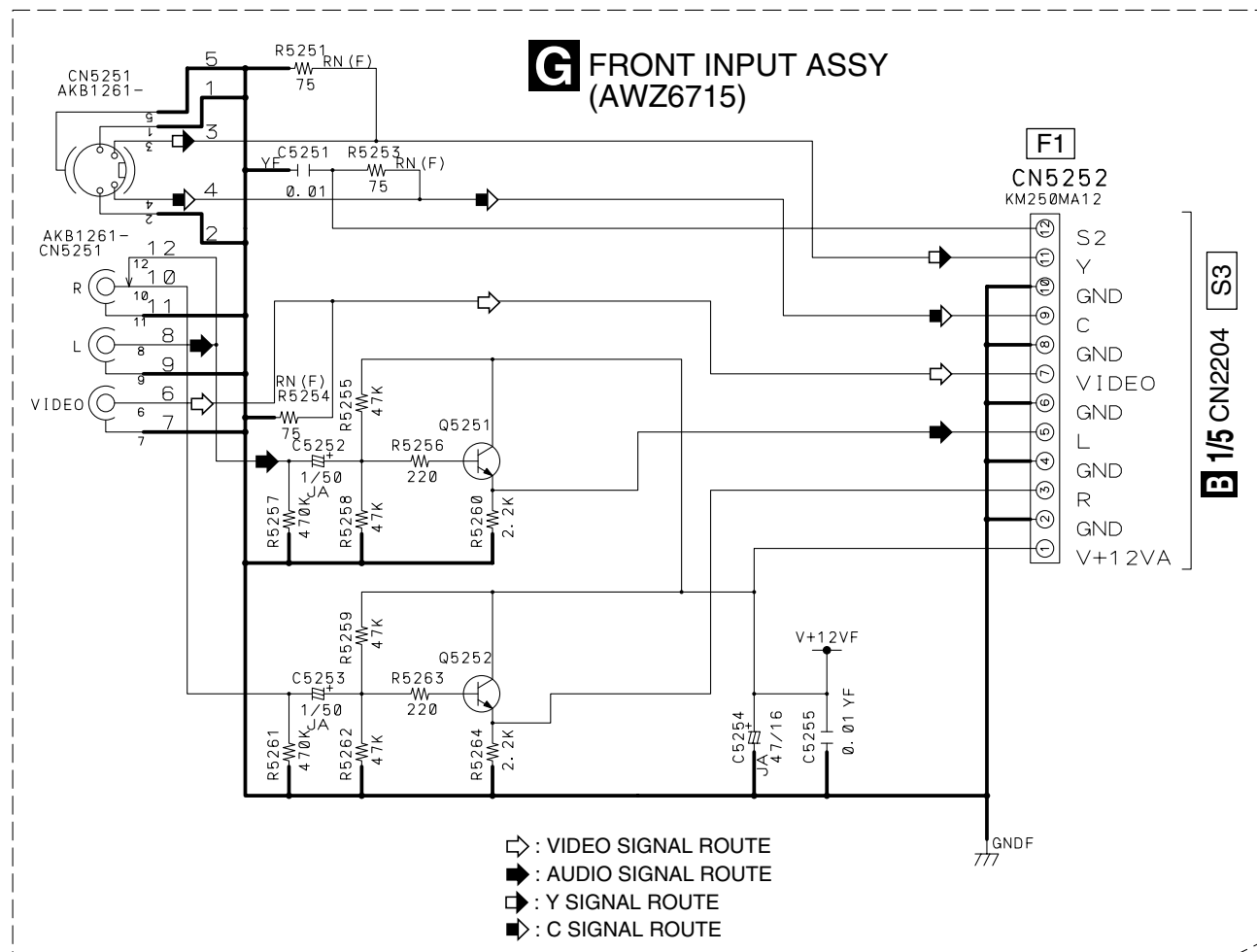
**E** LED RLS ASSY (AWZ6719)



**F** REMOTE SENSOR ASSY  
(AWZ6717)



## 3.10 FRONT INPUT and D-SUB ASSYS



### NOTE

#### 1. RESISTORS

RD1/4PU\*\*\*J-T

#### 2. CAPASITORS

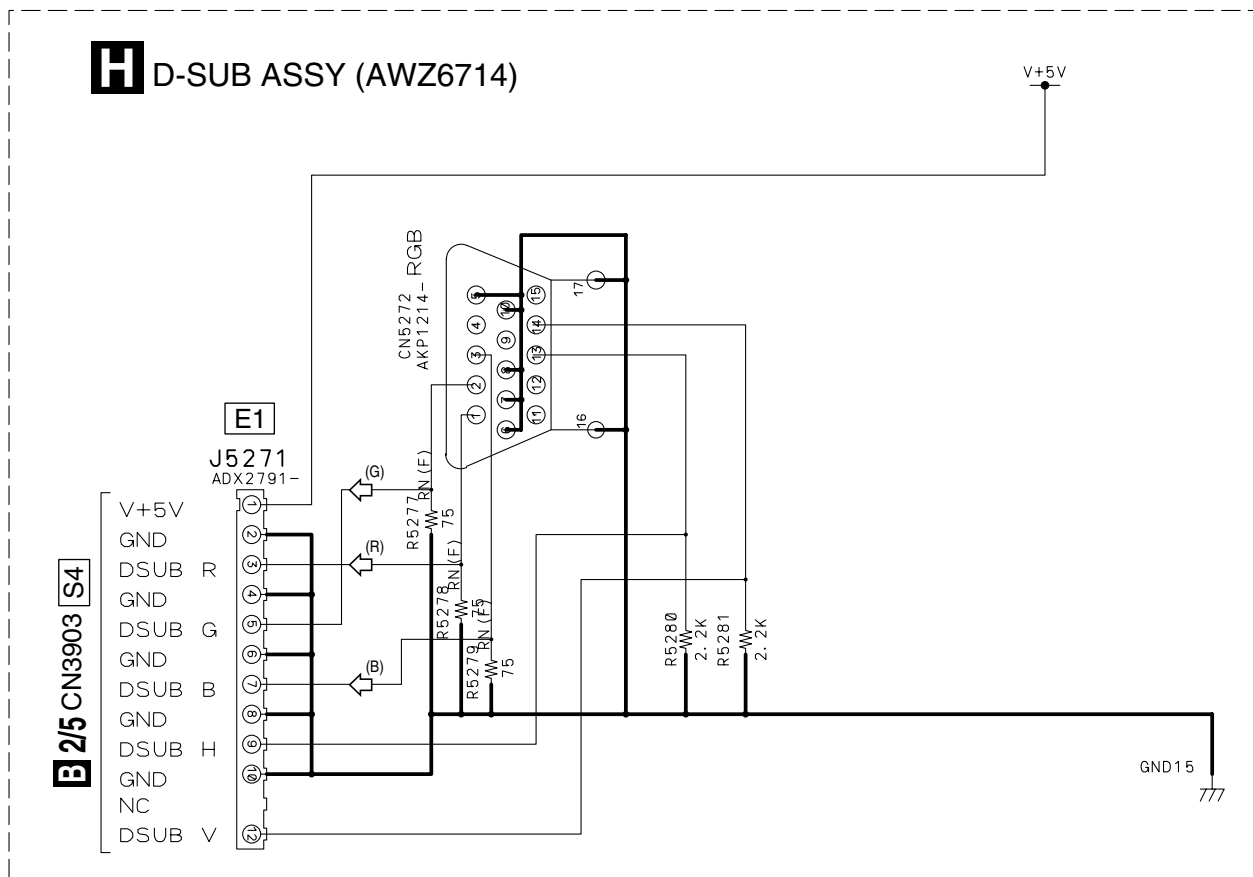
CKCYF\*\*\*Z50-T

CEAT\*\*\*M\*-T

CEJA\*\*\*M50-T

#### 3. Transister

2SC1740 (RS) -T



(RGB) : R, G or B SIGNAL ROUTE

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# J 1/5 VIDEO UCOM SERVICE ASSY

**IC1906 (PD5815A8)**

No	Voltage (V)	No	Voltage (V)
1	0	51	0
2	0	52	3.3
3	0/5	53	3.3
4	0/5	54	0
5	0	55	-
6	0	56	0
7	0	57	0
8	0	58	3.3
9	0	59	3.3
10	0	60	3.3
11	3.3	61	3.3
12	3.3	62	0/3.0
13	0/3.3	63	3.3
14	0	64	0/3.0
15	1.3/1.7	65	3.0
16	3.3	66	-
17	0	67	-
18	-	68	-
19	3.2	69	-
20	0	70	-
21	0	71	-
22	0	72	3.3
23	0/3.3	73	3.3
24	3.3	74	3.3
25	0/3.3	75	3.3
26	0/3.3	76	3.0
27	3.3	77	0
28	0/5	78	0
29	0/5	79	0
30	0/5	80	0
31	0/5	81	3.3
32	0	82	3.3
33	0	83	0
34	0	84	0
35	3.3	85	3.3
36	3.3	86	0/3.3
37	3.3	87	0
38	0	88	0
39	0	89	3.3
40	3.3	90	1.6
41	0	91	1.6
42	3.3	92	0
43	3.3	93	2.5
44	0	94	0
45	3.3	95	0
46	3.3	96	0
47	0	97	0
48	3.3	98	1.0
49	0	99	5.0
50	0	100	1.0

**IC1905 (M62399FP)**

No	Voltage (V)
1	5.0
2	0/5
3	0/5
4	3.0
5	5.4
6	-
7	-
8	0
9	3.8
10	0
11	3.8
12	4.2
13	2.3
14	5.6
15	4.6
16	9.0
17	5.0
18	0
19	5.0
20	0

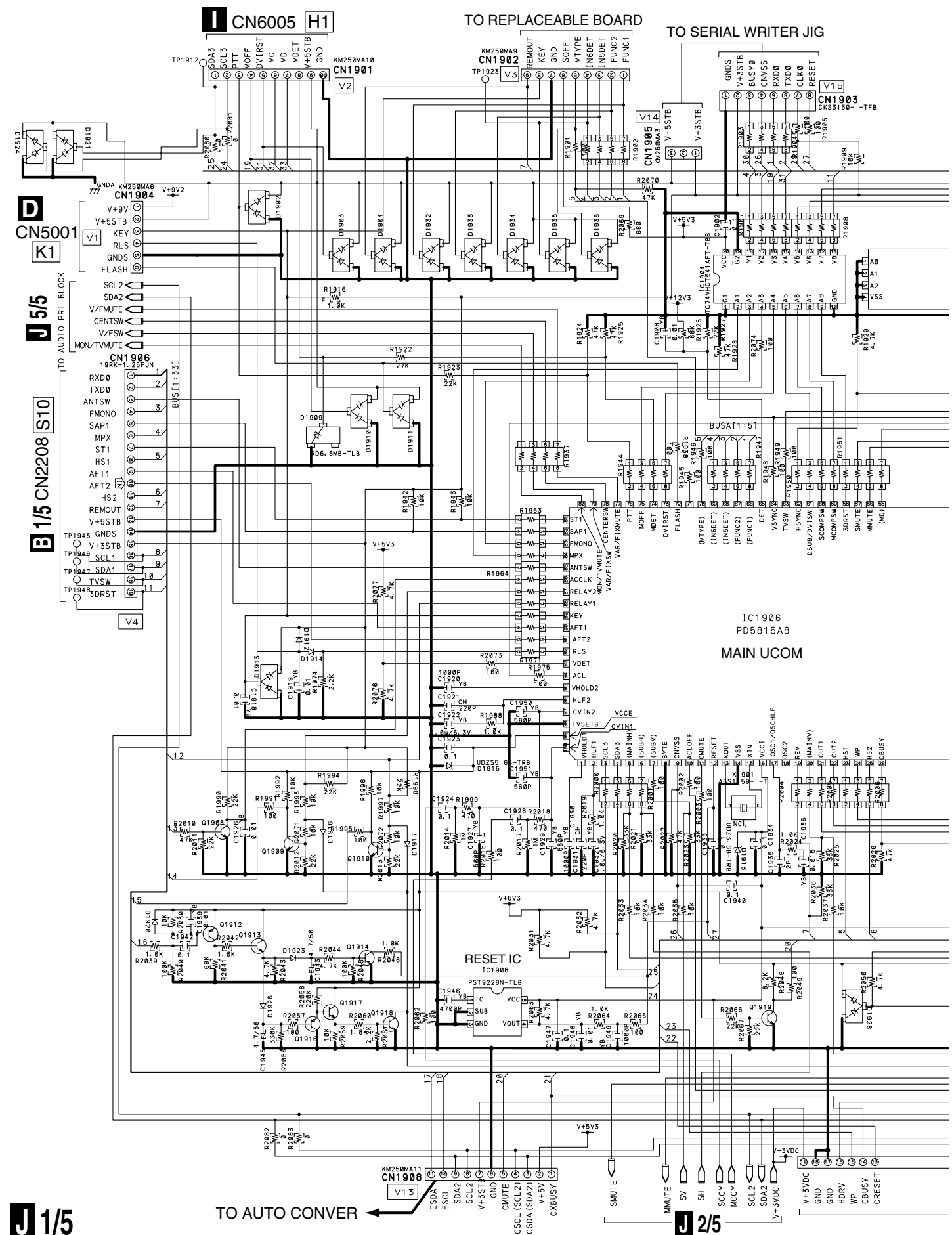
**IC1904  
(TC74VHCT541AFT)**

No	Voltage (V)
1	0
2	0
3	0
4	3.3
5	3.3
6	3.3
7	3.3
8	3.3
9	3.3
10	0
11	5.0
12	5.0
13	5.0
14	5.0
15	5.0
16	5.0
17	0
18	0
19	0
20	5.0

**IC1907  
(TC74VHCT541AFT)**

No	Voltage (V)
1	0
2	0
3	-
4	0
5	0
6	3.3
7	3.3
8	0
9	0
10	0
11	0
12	0
13	5.0
14	5.0
15	0
16	0
17	0
18	0
19	0
20	5.0

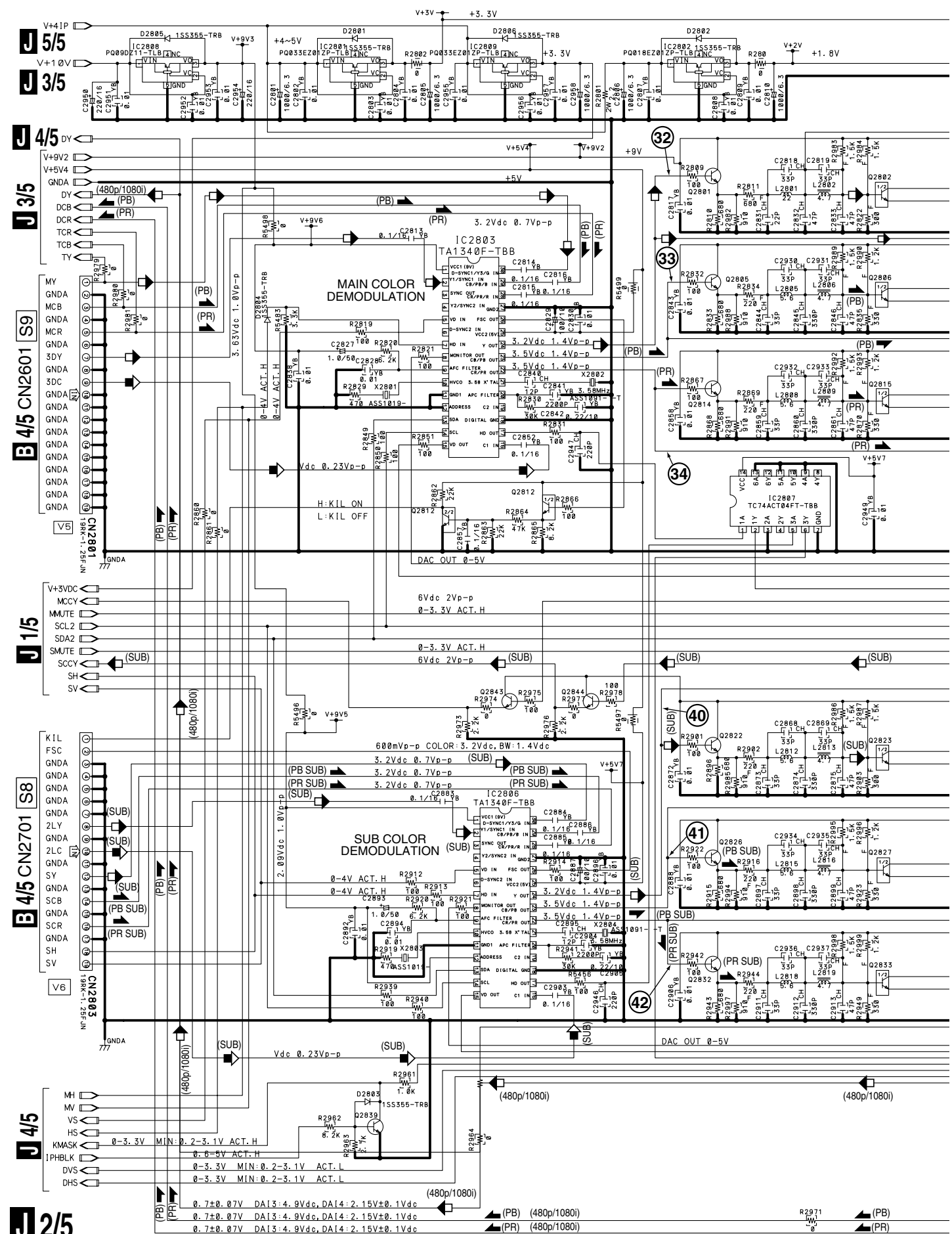
### 3.12 VIDEO UCOM ASSY (1/5)



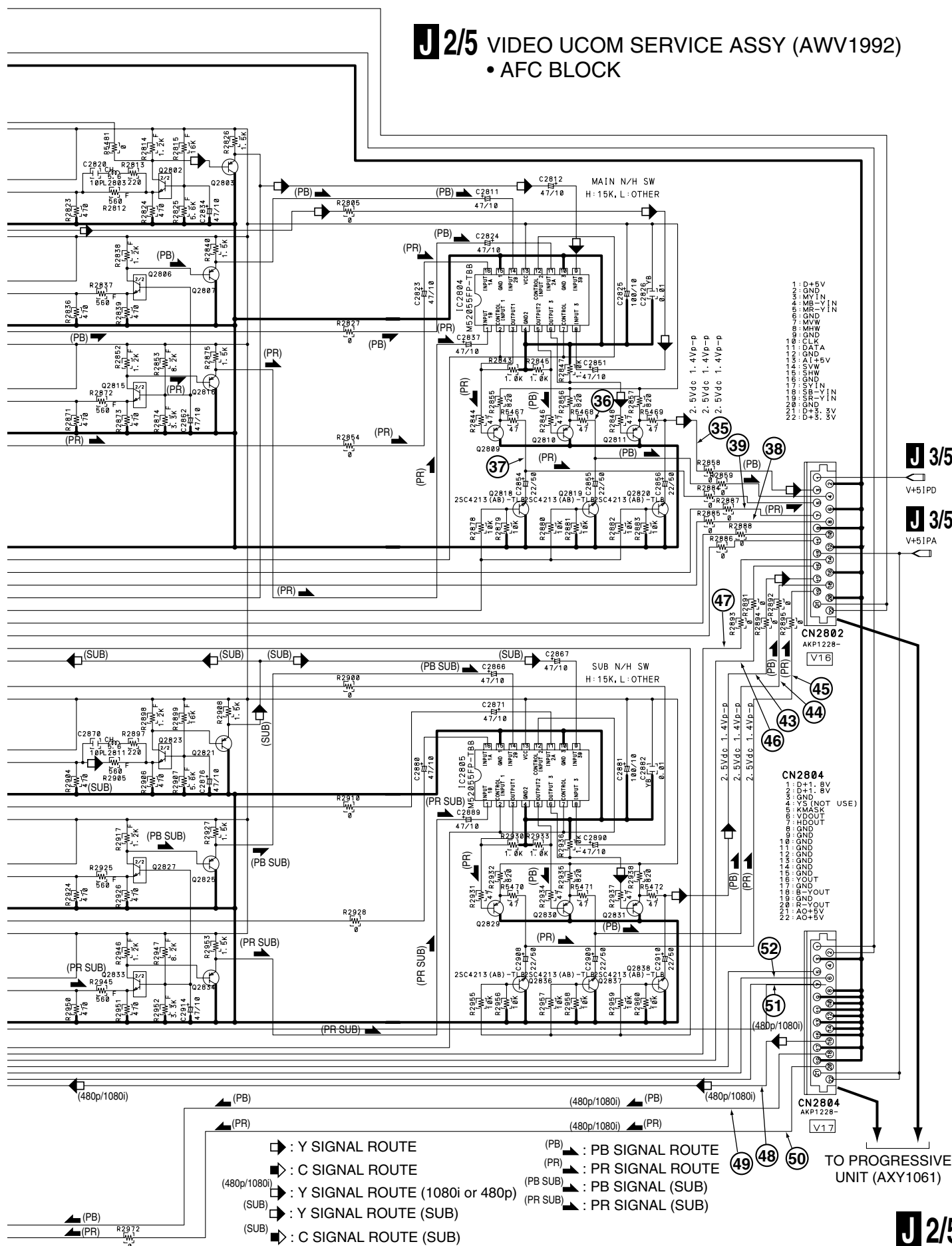
## A



### 3.13 VIDEO UCOM ASSY (2/5)



# **J 2/5 VIDEO UCOM SERVICE ASSY (AWV1992)** • AFC BLOCK

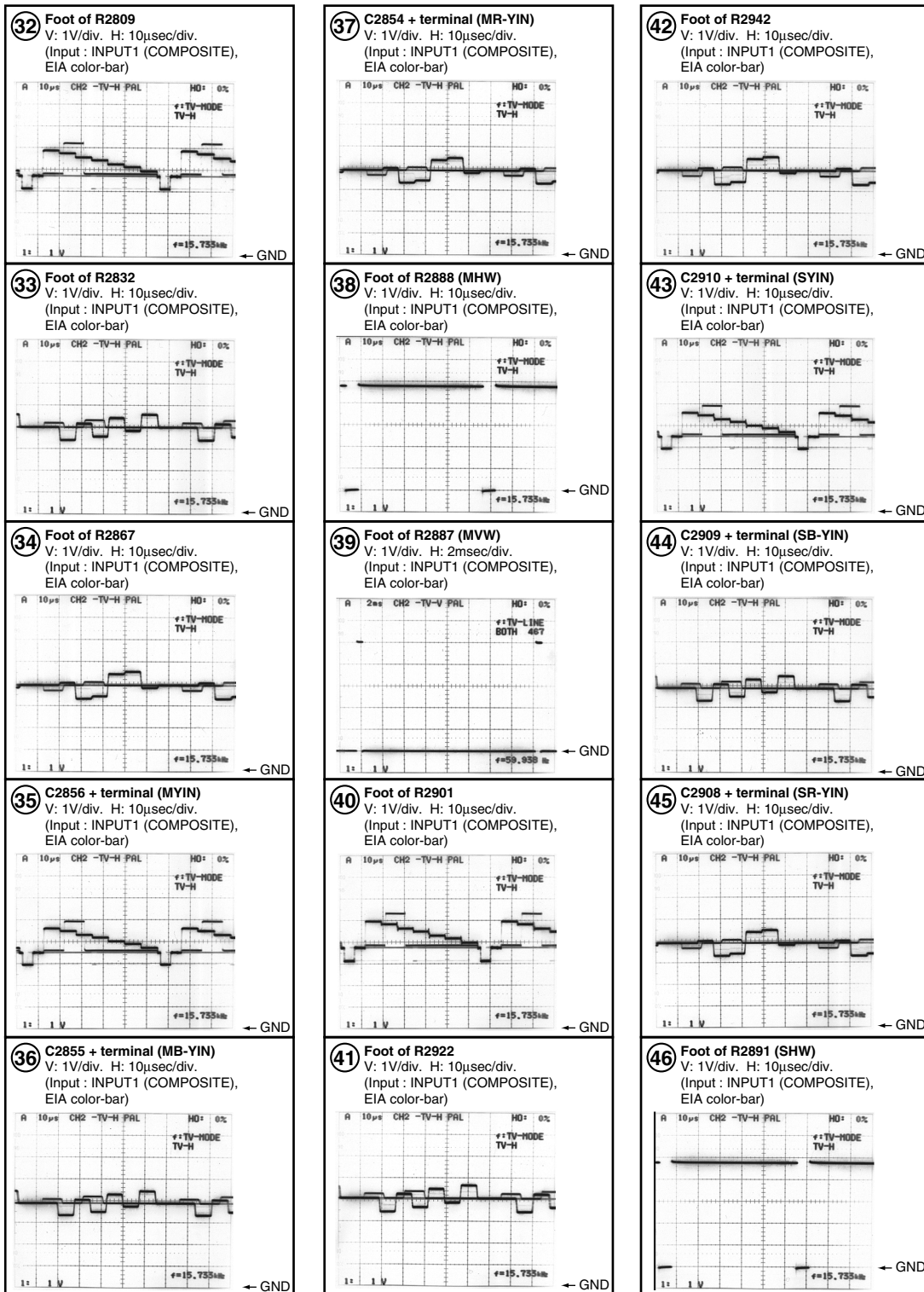


## WAVEFORMS and VOLTAGES

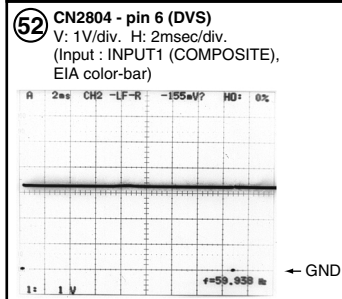
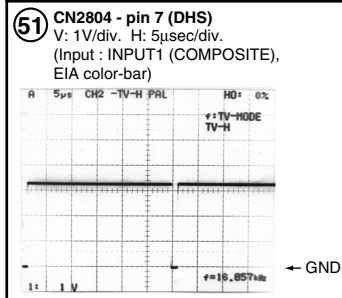
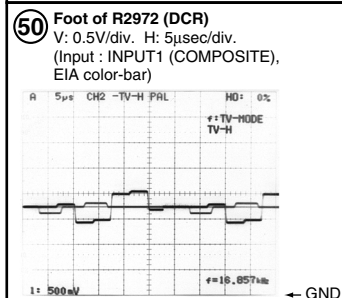
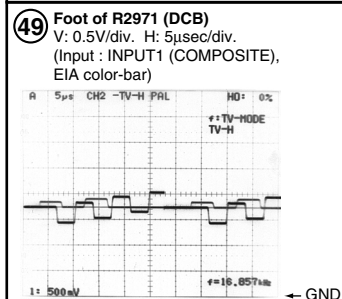
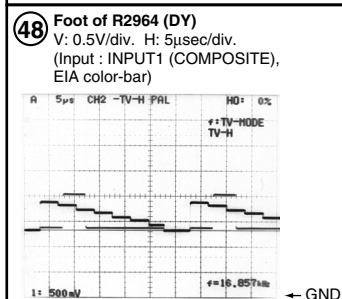
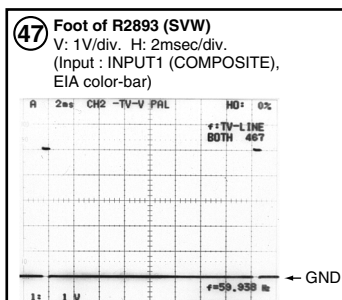
Note : The encircled numbers denote measuring point in the schematic diagram.

### J2/5 VIDEO UCOM SERVICE ASSY

- Condition: Picture Quality : STANDARD
- Range : DC range







# • Input signal

Input : INPUT 1 (COMPOSITE)

Video Signal : EIA color-bar

Picture Quality : STANDARD

## IC2803 (TA1340F)

No	Voltage (V)	No	Voltage (V)
1	9.0	16	2.4
2	2.4	17	0.6
3	-	18	0
4	2.4	19	2.4
5	0	20	2.2
6	2.2	21	3.8
7	0.4	22	3.9
8	5.0	23	4.0
9	6.4	24	4.1
10	5.2	25	5.0
11	0	26	2.9
12	0	27	0
13	0 to 5	28	2.2
14	0 to 5	29	2.2
15	0.2	30	1.9

## IC2804 (M52055FP)

No	Voltage (V)
1	4.7
2	5.0
3	3.2
4	0
5	3.2
6	3.2
7	5.0
8	4.7
9	4.7
10	0
11	4.7
12	5.0
13	9.0
14	4.7
15	0
16	4.7

## IC2807 (TC74ACT04FT)

No	Voltage (V)
1	0 to 5
2	0 to 5
3	0
4	4.7
5	0 to 5
6	0 to 5
7	0
8	4.7
9	0
10	4.7
11	0
12	4.7
13	0
14	4.7

## IC2806 (TA1340F)

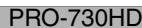
No	Voltage (V)	No	Voltage (V)
1	9.0	16	2.4
2	2.4	17	0.6
3	-	18	0
4	2.4	19	2.4
5	0.0	20	2.2
6	2.3	21	3.8
7	0.0	22	3.9
8	5.0	23	4.0
9	6.4	24	4.1
10	5.2	25	5.0
11	0	26	2.9
12	9.0	27	0
13	0 to 5	28	2.2
14	0 to 5	29	2.2
15	0.2	30	1.9

## IC2805 (M52055FP)

No	Voltage (V)
1	4.7
2	5.0
3	3.2
4	0
5	3.2
6	3.2
7	5.0
8	4.7
9	4.7
10	0
11	4.7
12	5.0
13	9.0
14	4.7
15	0
16	4.7

## 4

**F**

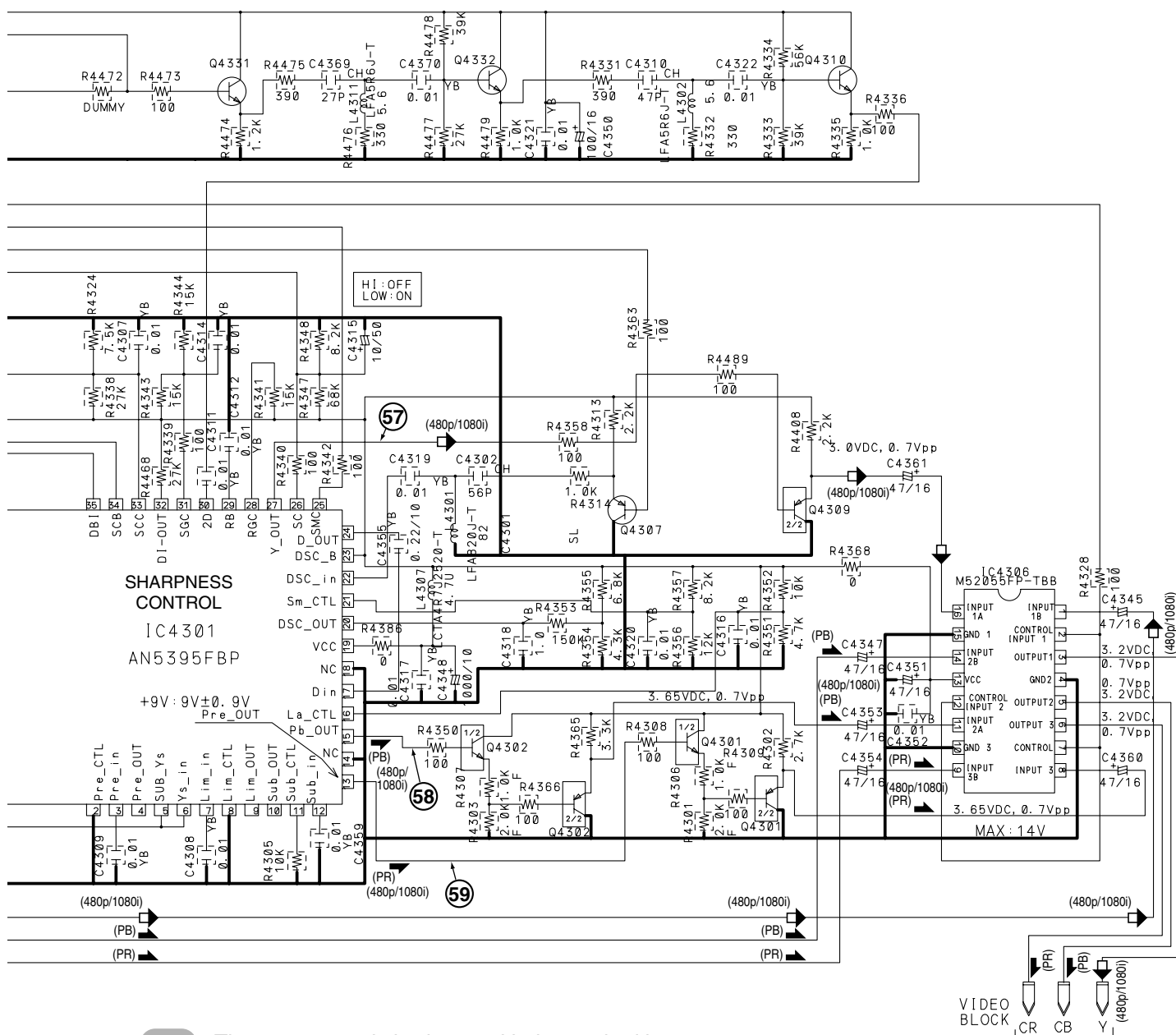





(480p/1080i)

**J 3/5**

M52055				AN5395			
	INPUT	OUTPUT	GAIN		INPUT	OUTPUT	GAIN
MIN	4.1 V	3.05 V	-0.6	Y	4.5 V	2.4 V	1.81
				CbCr	4.5 V	3.8 V	1.81
TYP	4.6 V	3.2 V	-0.1	Y	5.63 V	3.0 V	2.92
				CbCr	5.63 V	4.75 V	2.92
MAX	5.1 V	3.35 V	+0.4	Y	6.76 V	3.6 V	3.91
				CbCr	6.76 V	5.7 V	3.91



: The power supply is shown with the marked box.

**J 4/5**

**J 3/5**

# WAVEFORMS and VOLTAGES

Note : The encircled numbers denote measuring point in the schematic diagram.

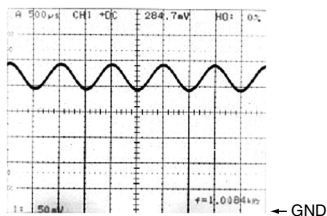
## J 3/5 VIDEO UCOM SERVICE ASSY

### • Input signal

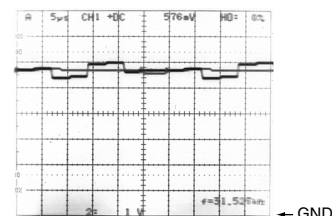
Input : INPUT 1 (COMPOSITE)

Video Signal : EIA color-bar

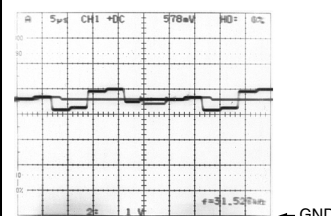
⑤③ CN4301 - pin 18 (AUDIOL)  
V: 0.5V/div. H: 500μsec/div.



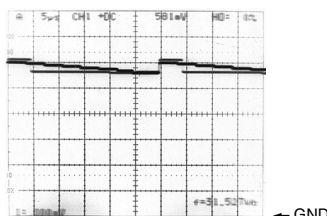
⑤⑥ IC4301 - pin 1 (Sharpness Pr in)  
V: 1V/div. H: 5μsec/div.



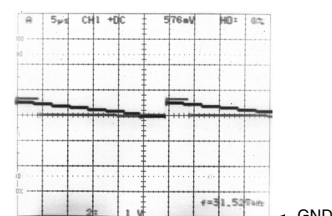
⑤⑨ IC4301 - pin 13 (Sharpness Pr out)  
V: 1V/div. H: 5μsec/div.



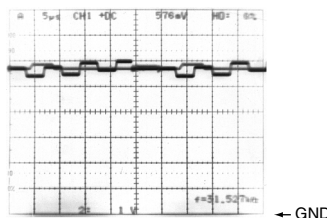
⑤④ IC4301 - pin 45 (Sharpness Y in)  
V: 1V/div. H: 5μsec/div.



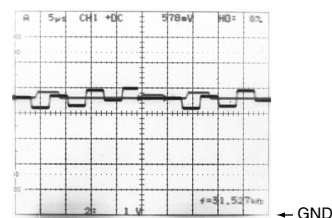
⑤⑦ IC4301 - pin 27 (Sharpness Y out)  
V: 1V/div. H: 5μsec/div.



⑤⑤ IC4301 - pin 47 (Sharpness Pb in)  
V: 1V/div. H: 5μsec/div.



⑤⑧ IC4301 - pin 15 (Sharpness Pb out)  
V: 1V/div. H: 5μsec/div.



### IC4301 (AN5395FBP)

No	Voltage (V)
1	5.6
2	0
3	2.6
4	-
5	9.0
6	9.0
7	2.6
8	0
9	-
10	-
11	0
12	2.6
13	4.6
14	0
15	4.6
16	3.1

No	Voltage (V)
17	5.6
18	0
19	8.9
20	4.1
21	5.2
22	2.7
23	9.0
24	4.7
25	0
26	3.6
27	4.1
28	6.3
29	3.6
30	2.5
31	3.8
32	2.7

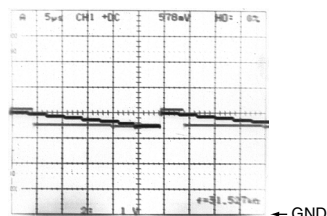
No	Voltage (V)
33	2.9
34	5.3
35	3.6
36	2.8
37	3.6
38	-
39	0
40	4.0
41	0
42	0
43	0/5
44	0
45	5.6
46	0
47	5.6
48	4.0

### IC4306 (M52055FP)

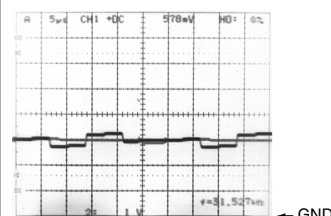
No	Voltage (V)
1	4.7
2	-
3	3.2
4	0
5	3.2
6	3.2
7	-
8	4.7
9	4.7
10	0
11	4.7
12	-
13	9.1
14	4.7
15	0
16	4.7

## J 4/5 VIDEO UCOM ASSY

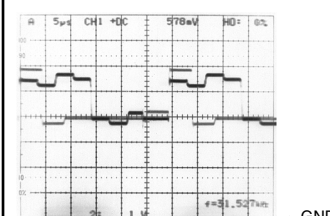
⑥① IC4608 - pin 51 (Jungle input Y)  
V: 1V/div. H: 5μsec/div.



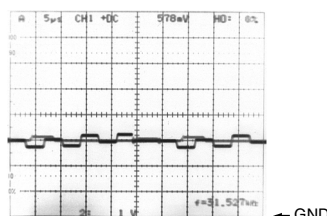
⑥② IC4608 - pin 53 (Jungle input Pr)  
V: 1V/div. H: 5μsec/div.



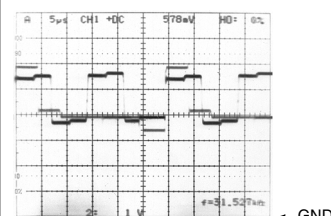
⑥④ IC4608 - pin 32 (Jungle output G)  
V: 1V/div. H: 5μsec/div.



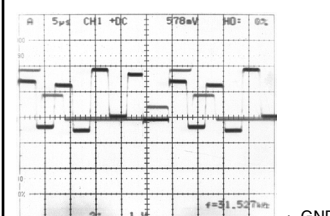
⑥① IC4608 - pin 52 (Jungle input Pb)  
V: 1V/div. H: 5μsec/div.

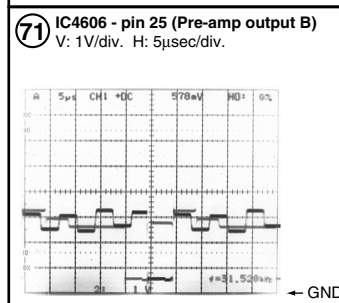
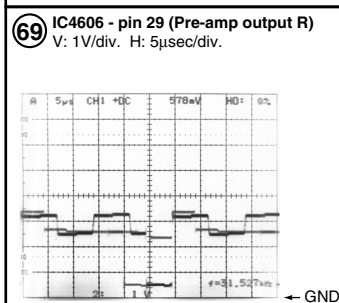
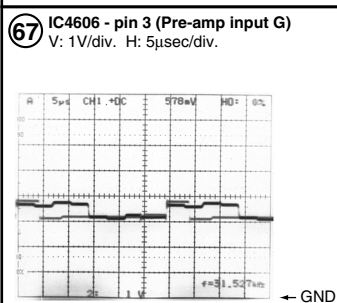
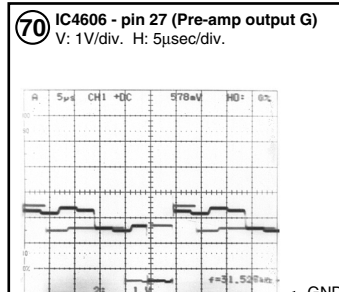
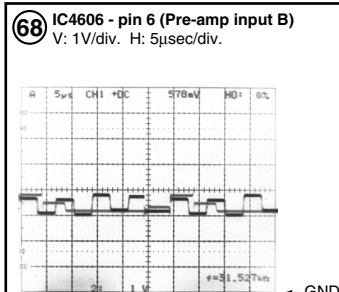
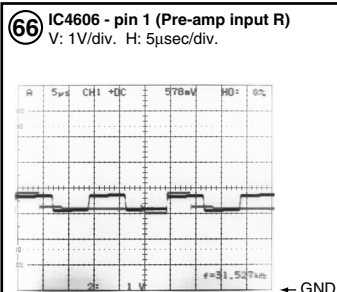


⑥③ IC4608 - pin 34 (Jungle output R)  
V: 1V/div. H: 5μsec/div.



⑥⑤ IC4608 - pin 30 (Jungle output B)  
V: 1V/div. H: 5μsec/div.





IC4608 (CXA2180Q)

No	Voltage (V)	No	Voltage (V)
1	3.4	33	5.0
2	4.9	34	4.4
3	2.9	35	0
4	4.0	36	0
5	-	37	3.3
6	0	38	3.3
7	0/5	39	3.3
8	5.0	40	0
9	1.3	41	3.3
10	3.0	42	3.3
11	-	43	3.3
12	0	44	0
13	2.9	45	1.1
14	0.6/5.6	46	2.6
15	0	47	2.7
16	1.3/5	48	0
17	0	49	2.4
18	0/5	50	5.0
19	0/5	51	3.6
20	2.0	52	3.0
21	4.9	53	3.0
22	0/5	54	0
23	0/5	55	3.5
24	0	56	3.5
25	5.0	57	3.5
26	4.9	58	0
27	2.8	59	0/5
28	9.0	60	0/5
29	5.0	61	9.0
30	4.4	62	4.4
31	5.0	63	5.7
32	4.4	64	3.5

IC4601 (M52055FP)

No	Voltage (V)
1	4.7
2	-
3	3.2
4	0
5	3.2
6	3.2
7	-
8	4.7
9	4.7
10	0
11	4.7
12	-
13	9.1
14	4.7
15	0
16	4.7

IC4602 (TC74HC4053AF)

No	Voltage (V)
1	0.7
2	0.7
3	0.7
4	0.7
5	0.7
6	0
7	0
8	0
9	0
10	0
11	0
12	0.7
13	0.7
14	0.7
15	0.7
16	5.0

IC4606 (CXA2153S)

No	Voltage (V)	No	Voltage (V)
1	3.3	16	0/5
2	4.9	17	0/5
3	3.3	18	3.1
4	2.9	19	3.5
5	3.3	20	3.5
6	0	21	3.5
7	4.0	22	12.0
8	0	23	9.0
9	0	24	0
10	0	25	2.3
11	0	26	0
12	-	27	2.3
13	0/5	28	0
14	0/5	29	2.3
15	-	30	12.0

IC4603 (TC7W53FU)

No	Voltage (V)
1	1.5
2	0
3	0
4	0
5	0.7/5.7
6	1.2
7	1.6
8	5.0

IC4604 (BA7655AF)

No	Voltage (V)
1	2.8
2	3.2
3	2.2
4	0
5	2.2
6	3.2
7	2.8
8	5.0

IC4609 (AD8057ART)

No	Voltage (V)
1	2.4
2	0
3	2.3
4	2.4
5	12.0

IC4612 (TC7SB66FU)

No	Voltage (V)
1	2.4
2	1.9
3	0
4	0
5	5.0

IC4610 (TC74HC126AF)

No	Voltage (V)
1	5.0
2	0/5
3	0/5
4	0
5	0.9
6	0/5
7	0
8	0/5
9	0
10	0
11	0/5
12	0/5
13	5.0
14	5.0

IC4611 (NJM319M)

No	Voltage (V)
1	-
2	-
3	0
4	0/5
5	3.7
6	0
7	0/5
8	0
9	0/5
10	1.4
11	9.1
12	0/5
13	-
14	-

IC4613 (TC7SB66FU)

No	Voltage (V)
1	2.4
2	1.9
3	0
4	0
5	5.0

IC4614 (TC7SB66FU)

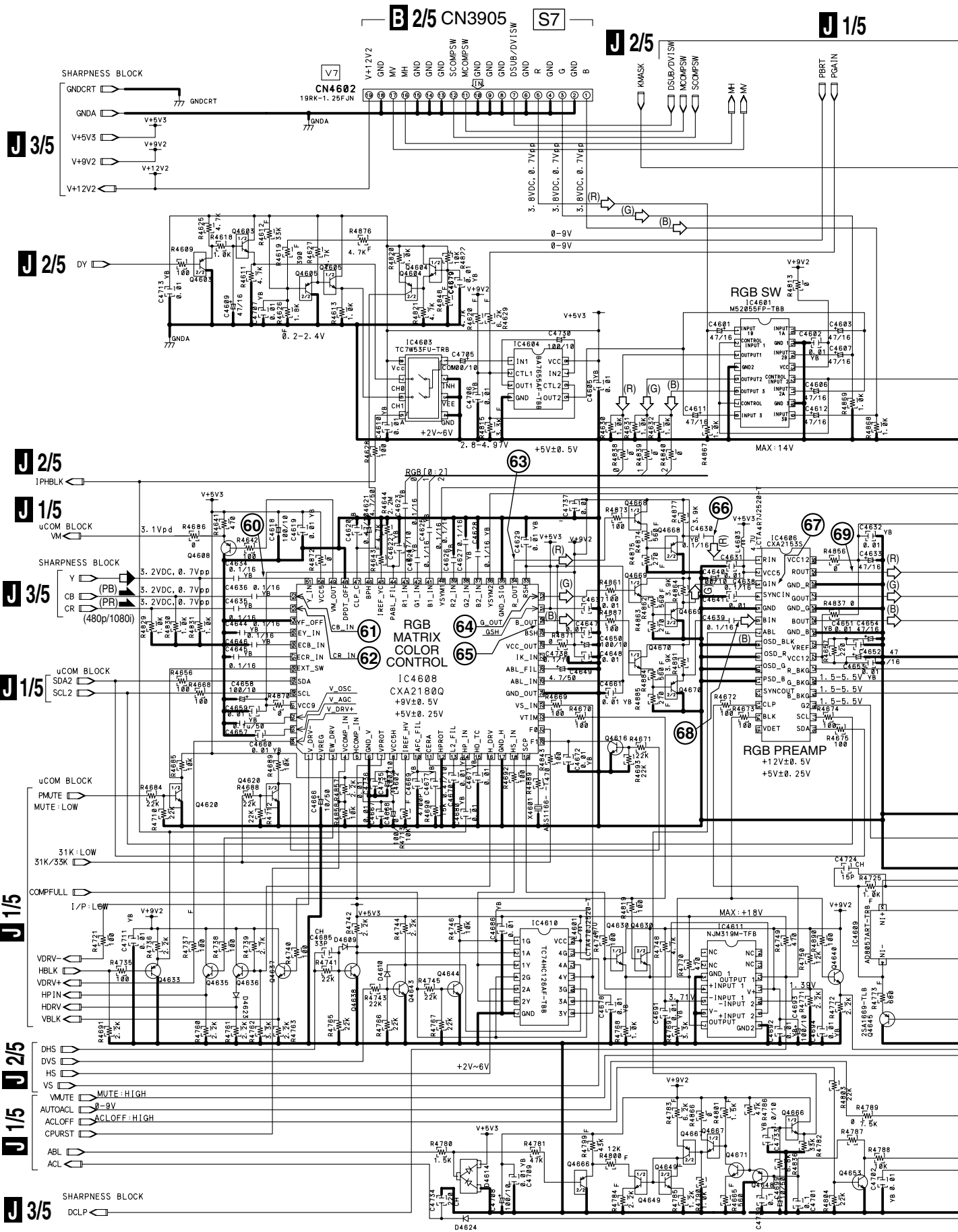
No	Voltage (V)
1	2.4
2	1.9
3	0
4	0
5	5.0

IC4615 (TC7SET08FU)

No	Voltage (V)
1	0
2	0
3	0
4	0
5	5.0

## 4

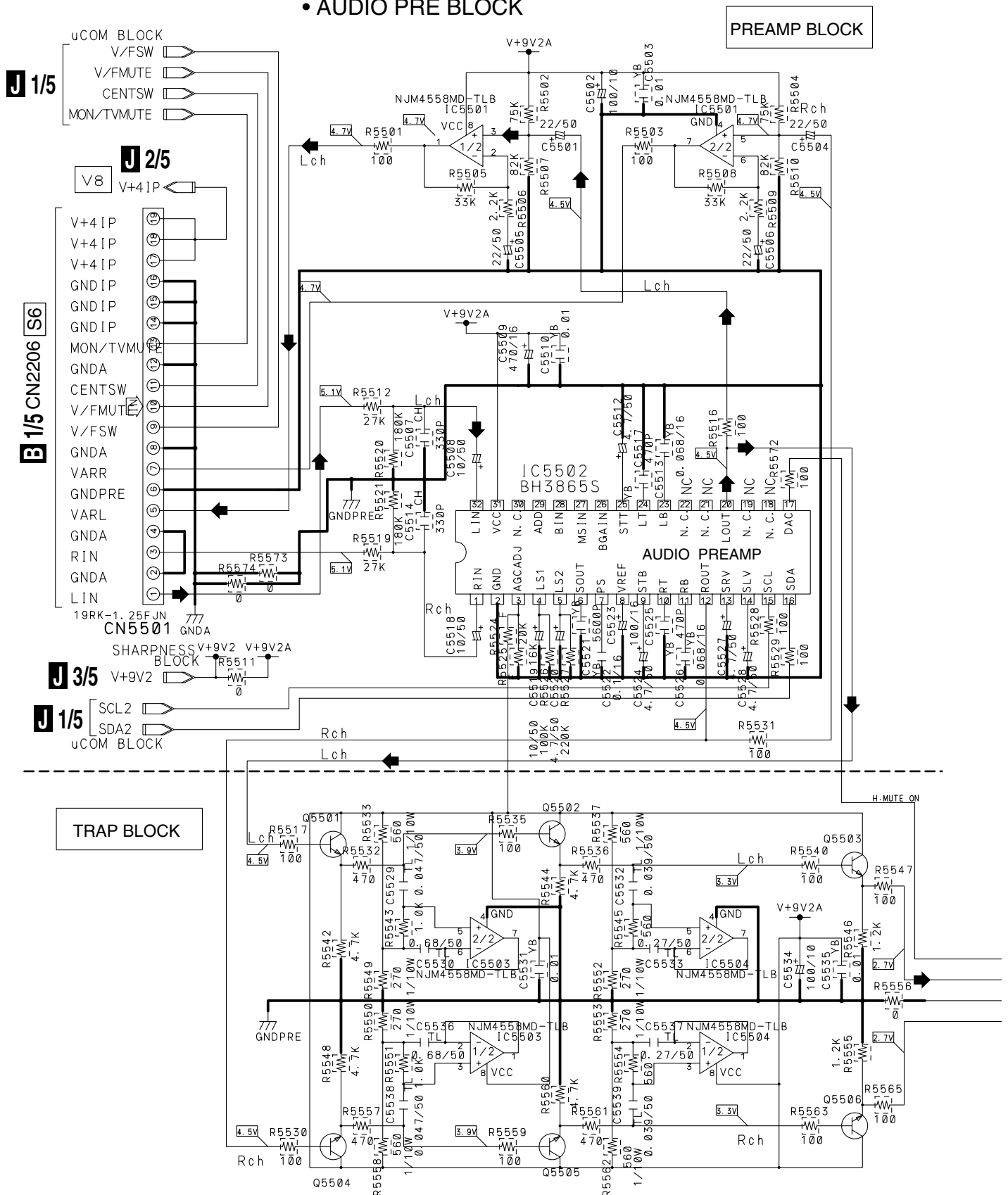
**F**





### 3.16 VIDEO UCOM ASSY (5/5)

#### J 5/5 VIDEO UCOM SERVICE ASSY (AWV1992) • AUDIO PRE BLOCK








VAR AMP

NOTE


RESISTOR  $\Omega$


 RS1/16S\*\*\*J-T

 RS1/10S\*\*\*J-T


 RS1/16S\*\*\*\*F-T

TRANSISTORS

 2SA1162 (YGR) -TBB


 2SC2712 (YGR) -TBB


CAPACITORS  $\mu F$

 CEAT

 CEANP

 CKSRYB

 CMQMA

 CFTLA

➡ : AUDIO SIGNAL ROUTE

IC5502 (BH3865S)

No	Voltage (V)	No	Voltage (V)
1	4.5	17	0/5
2	0	18	-
3	4.0	19	-
4	-	20	4.5
5	-	21	-
6	4.5	22	-
7	4.5	23	4.5
8	4.5	24	4.5
9	2.5	25	1.5
10	4.5	26	4.5
11	4.5	27	4.5
12	4.5	28	4.5
13	0.5	29	4.5
14	0.5	30	-
15	0/5	31	9
16	0/5	32	4.5

IC5501 (NJM4558MD)

No	Voltage (V)
1	4.8
2	4.8
3	4.8
4	0
5	4.8
6	4.8
7	4.8
8	9.0

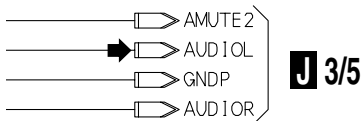
IC5503 (NJM4558MD)

No	Voltage (V)
1	2.9
2	2.9
3	2.9
4	0
5	2.9
6	2.9
7	2.9
8	9

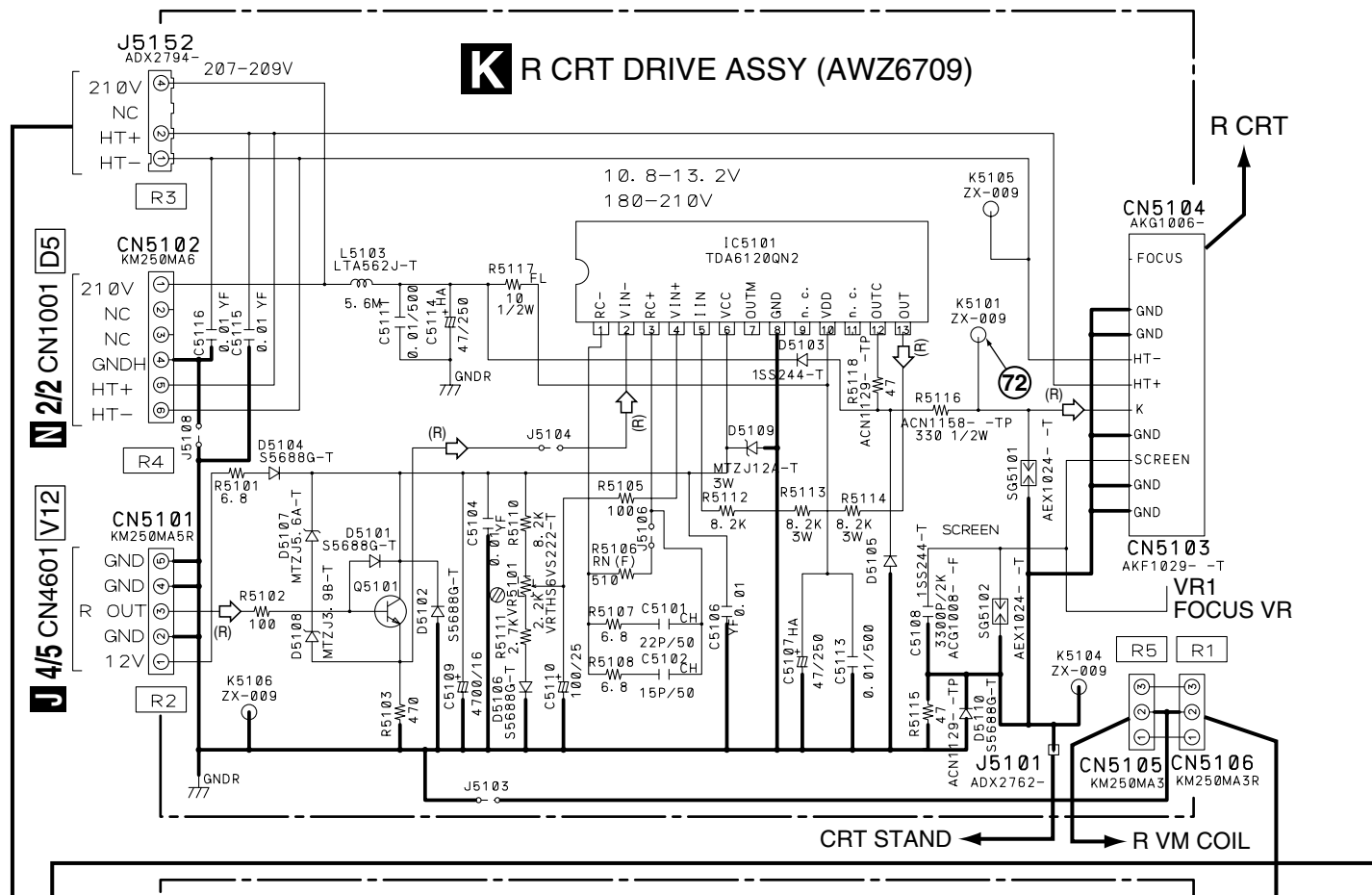
IC5504 (NJM4558MD)

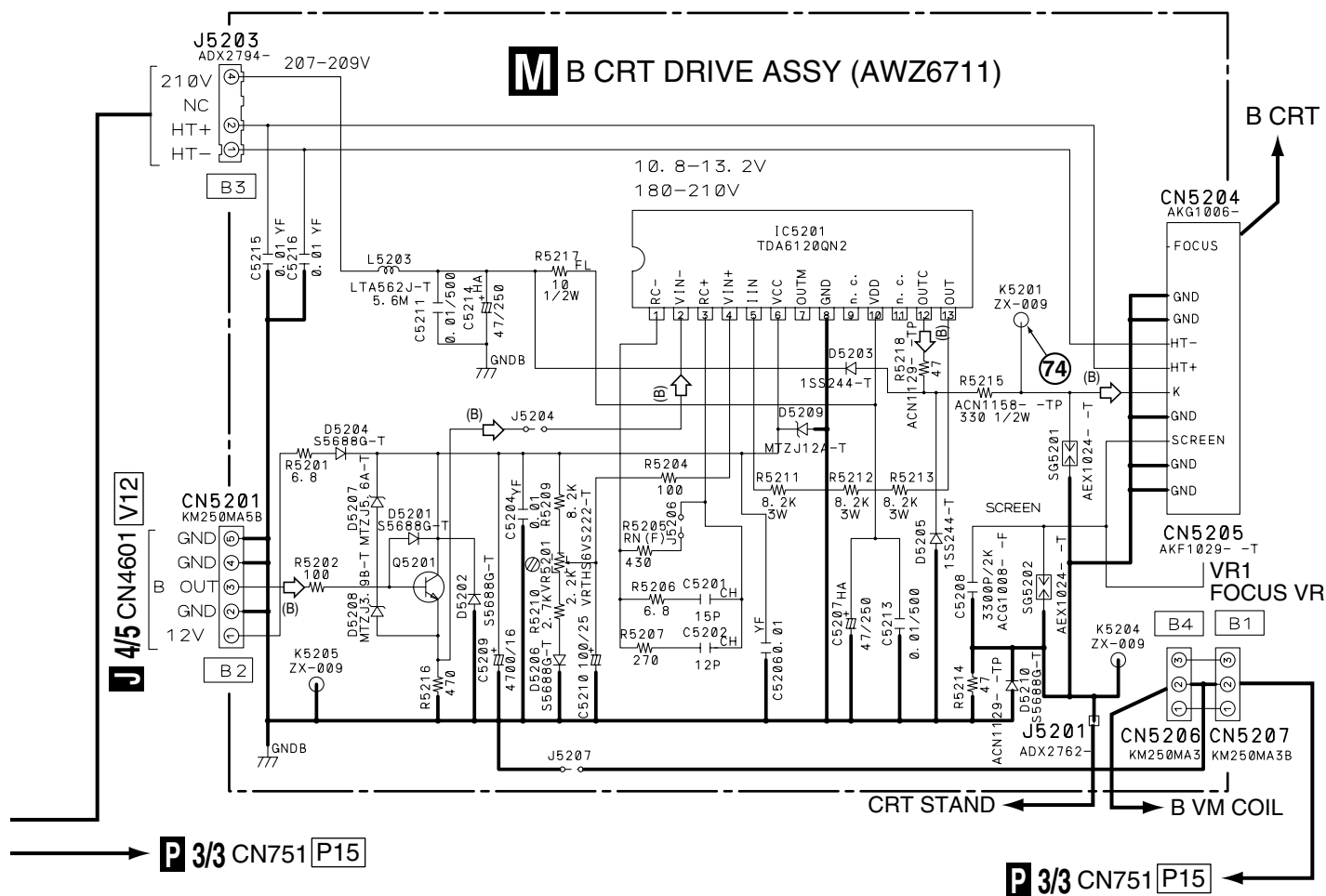
No	Voltage (V)
1	2.9
2	2.9
3	2.9
4	0
5	2.9
6	2.9
7	2.9
8	9.0

SHARPNESS



### 3.17 R, G and B CRT DRIVE ASSYS





\*Resistor indicated in ohm, 1/4W+5% tolerance unless otherwise noted. k:k ohm, M:M ohm

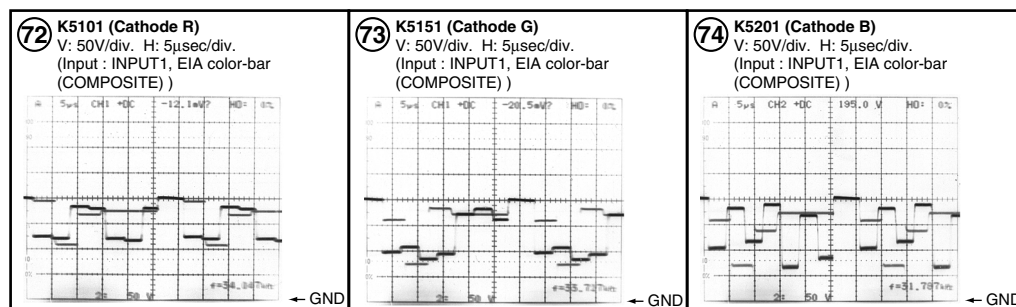
\*Capacitor indicated in Capacity (uF)/Voltage (V) unless otherwise noted. p:pF indication without voltage is 50V except Electrolytic capacitor.

\*Transistor



2SC1740S (RS) -T

(RGB) R, G or B SIGNAL ROUTE



**P 3/3 CN751 P15**

# 3.18 DEFLECTION SERVICE ASSY (1/2)

A

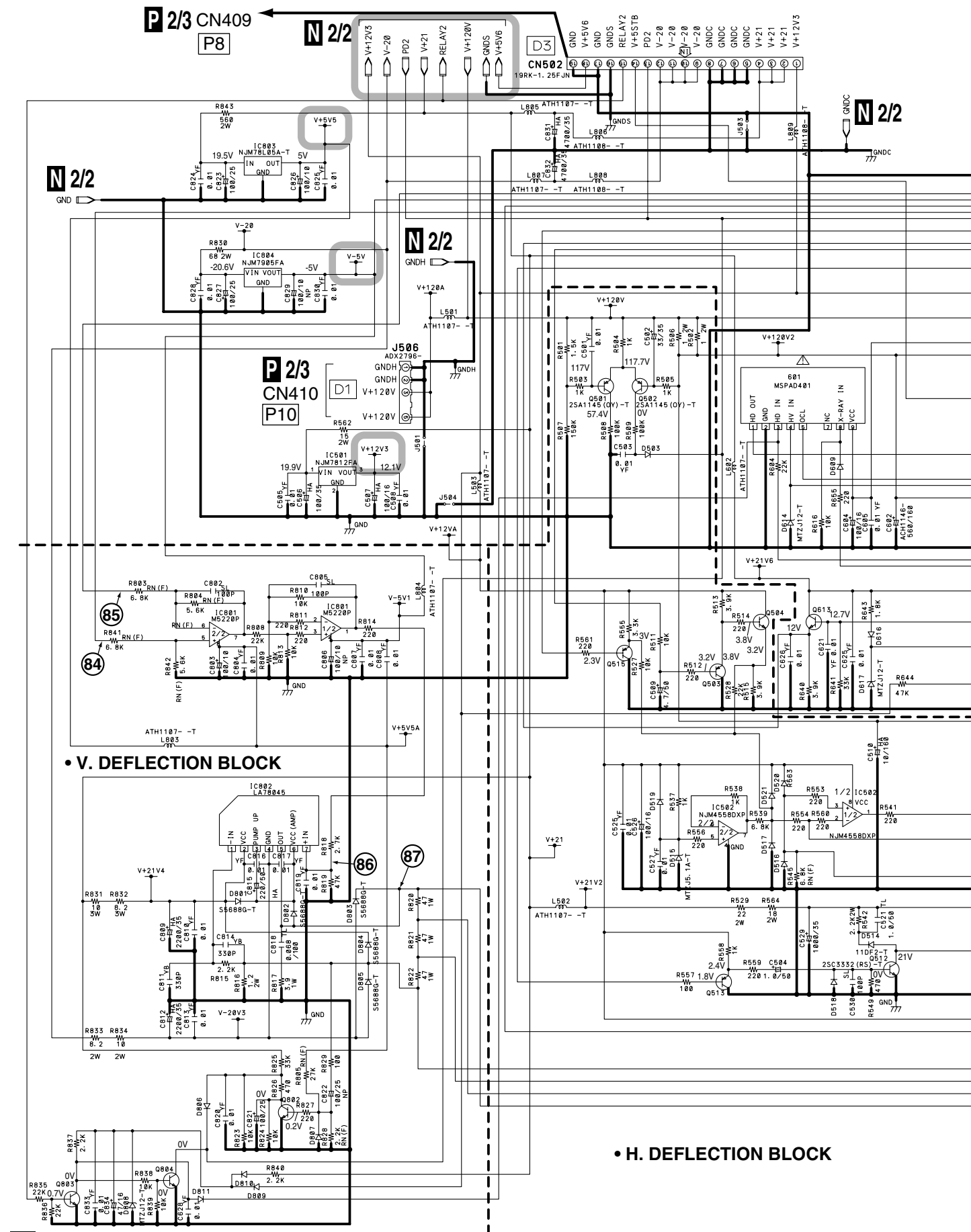
B

C

D

E

F



N 1/2

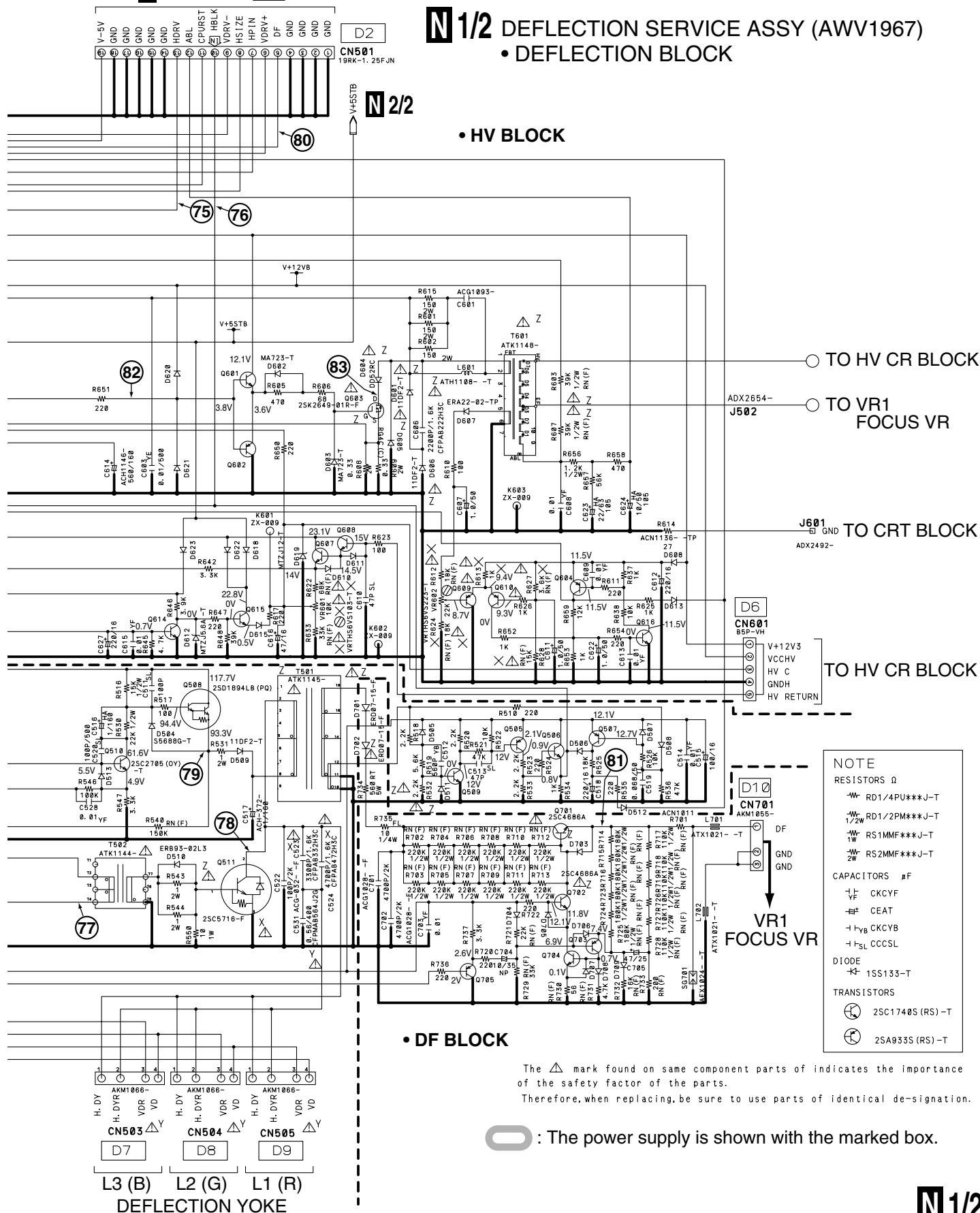
P 2/3 CN408 P9

# N 1/2 DEFLECTION SERVICE ASSY (AWV1967) • DEFLECTION BLOCK

D2  
CN501  
19RK-1.25FJN

N 2/2

• HV BLOCK



## WAVEFORMS and VOLTAGES

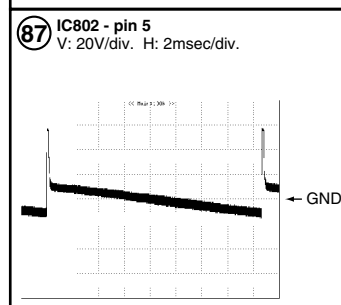
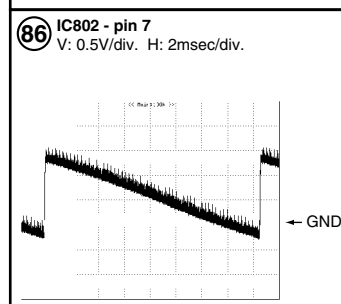
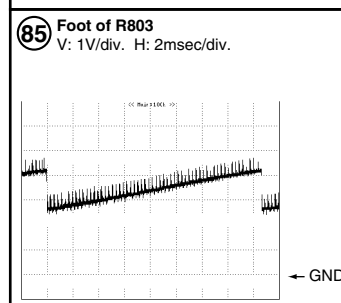
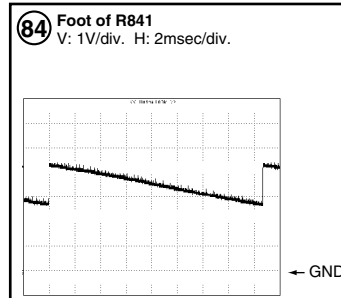
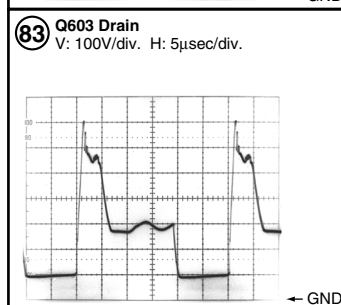
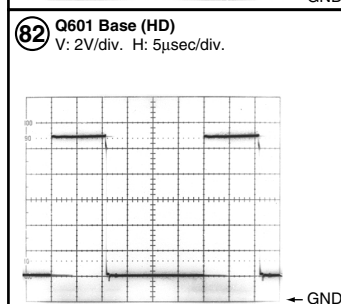
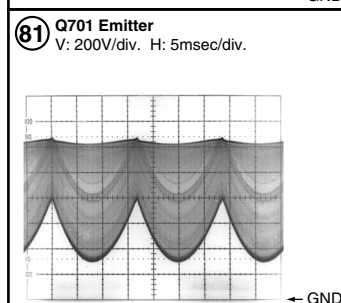
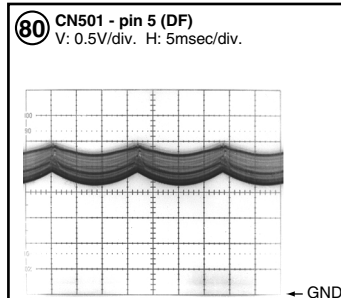
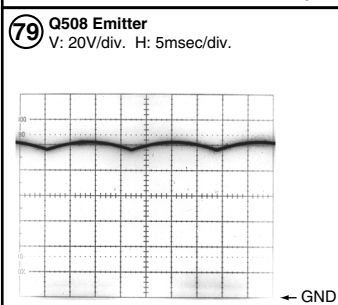
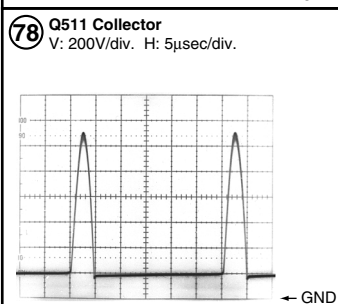
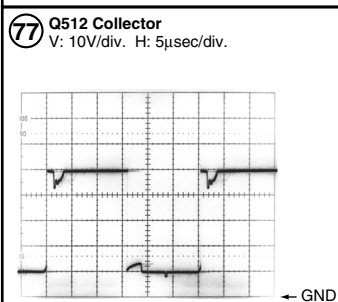
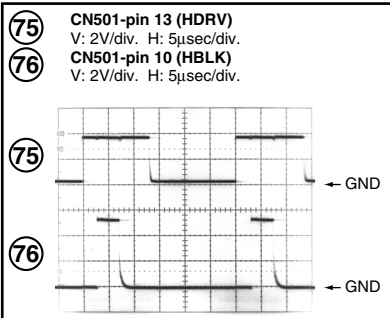
Note : The encircled numbers denote measuring point in the schematic diagram.

### N1/2 DEFLECTION SERVICE ASSY

#### • Input signal

Input : INPUT 1 (COMPOSITE)

Video Signal : EIA color-bar



#### 601 (MSPAD401)

No	Voltage (V)
1	3.9
2	0
3	0.6
4	5.0
5	0.1
6	-
7	-
8	0
9	12.1

#### IC801 (M5220P)

No	Voltage (V)
1	0
2	0
3	0
4	-4.9
5	1.6
6	1.6
7	0.1
8	5.0

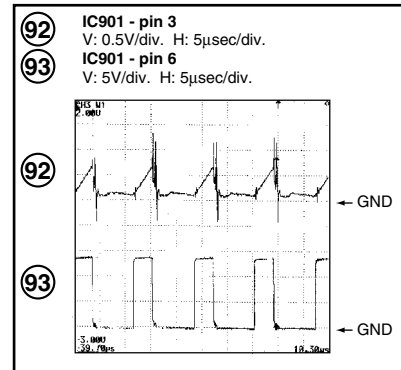
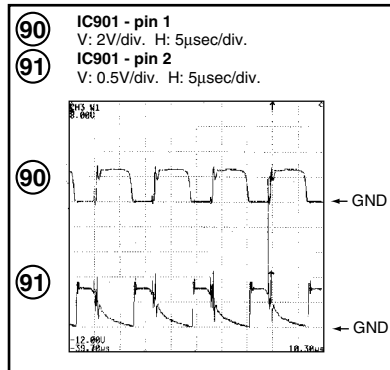
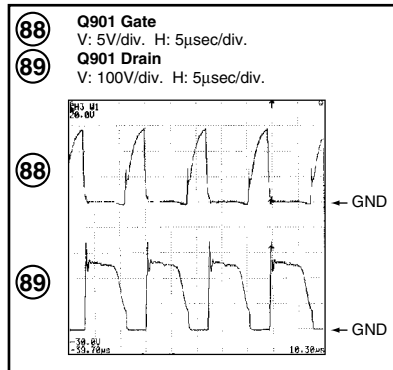
#### IC502 (NJM4558DXP)

No	Voltage (V)
1	5.5
2	4.0
3	4.0
4	0
5	5.0
6	5.0
7	5.0
8	12.1

#### IC802 (LA78045)

No	Voltage (V)
1	0
2	18.9
3	-18.7
4	-20.0
5	0.7
6	18.6
7	0

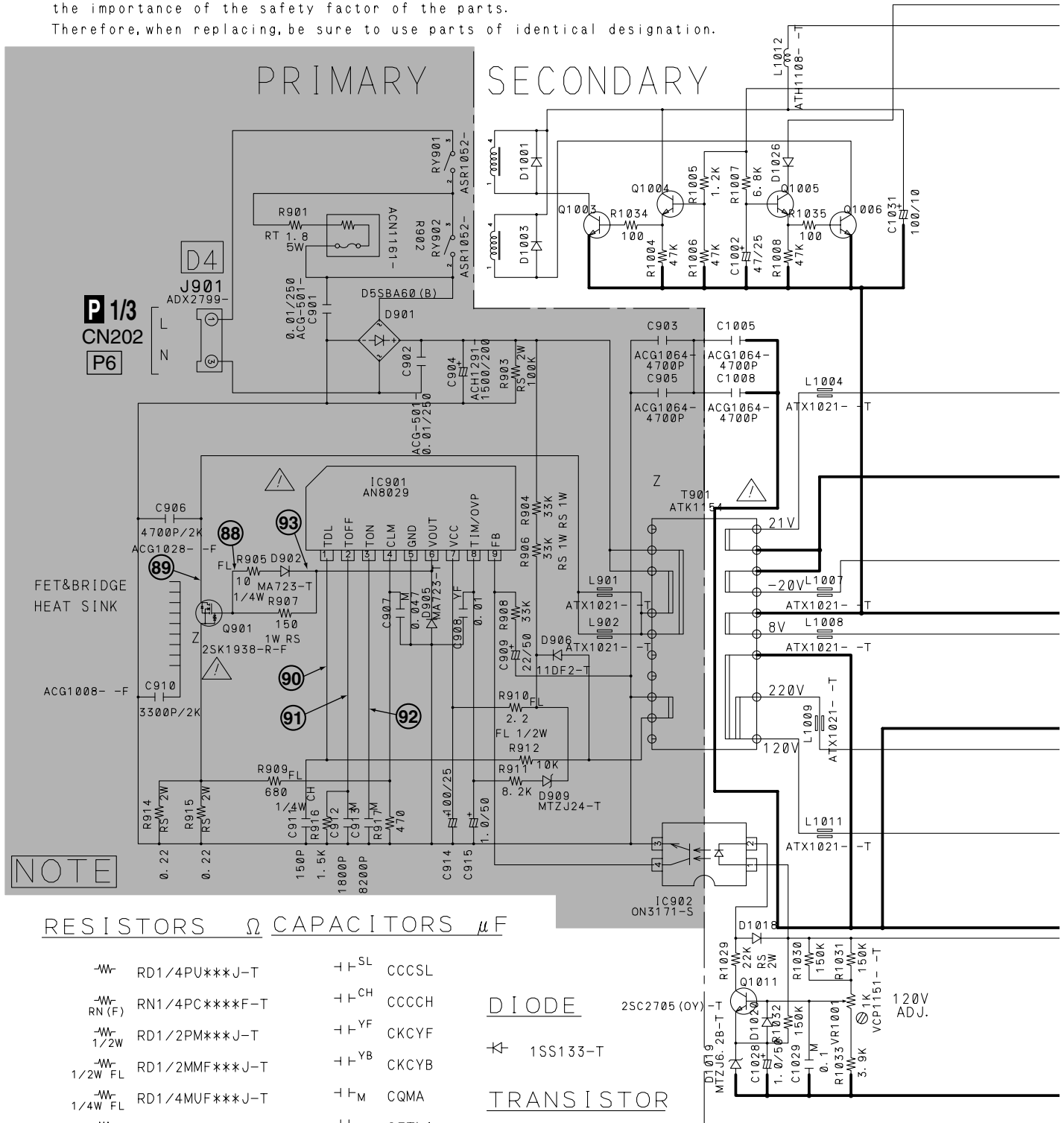
## N 2/2 DEFLECTION SERVICE ASSY



### 3.19 DEFLECTION SERVICE ASSY (2/2)

- \* Resistor indicated in ohm, 1/4W  $\pm$ 5% tolerance unless otherwise noted. k:k ohm, M:M ohm
- \* Capacitor indicated in Capacity (uF)/Voltage (V) unless otherwise noted. p:pF indication without voltage is 50V except Electrolytic capacitor.
- \* The  $\triangle$  mark found on same component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.

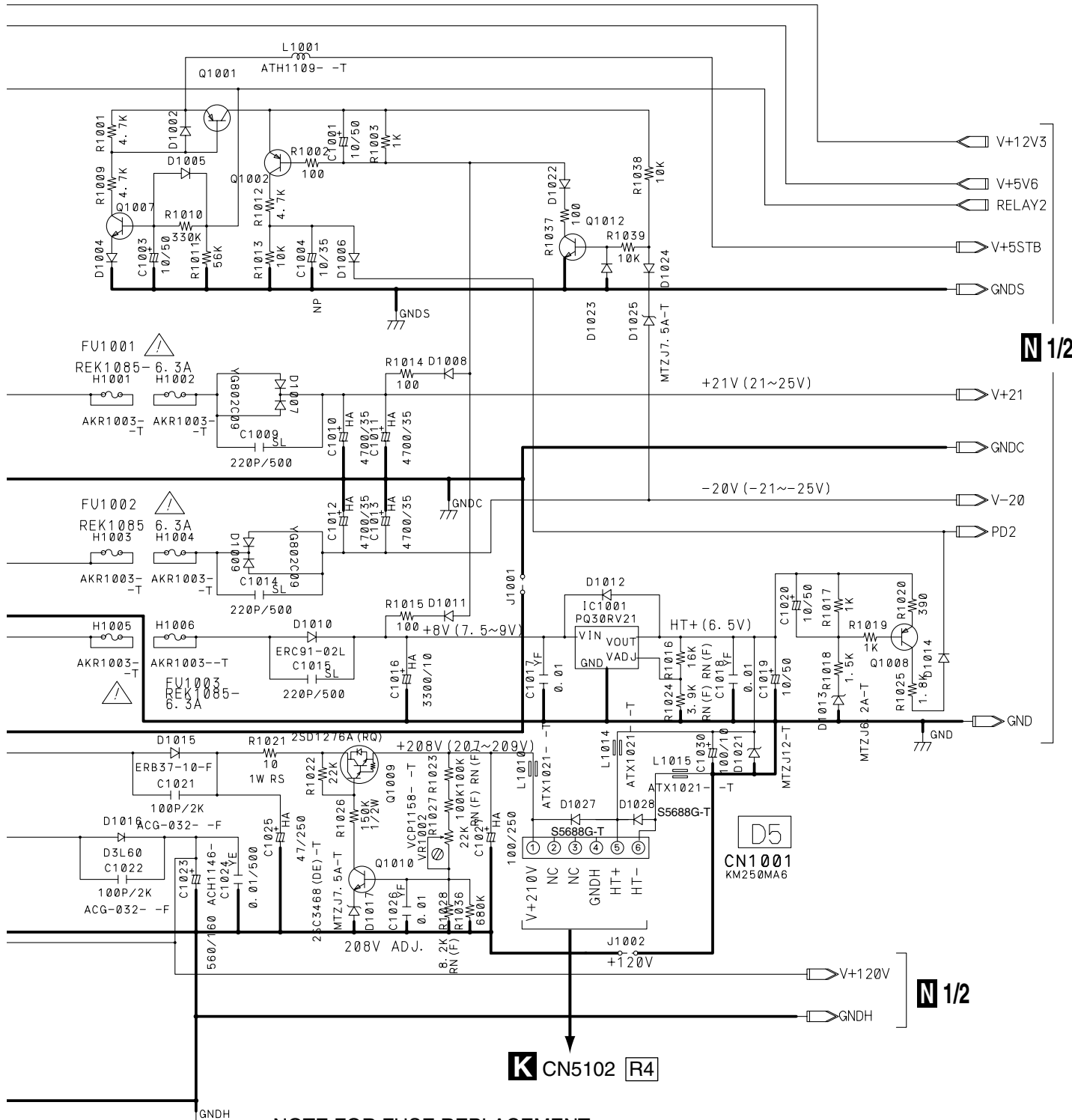
**CHARGED SECTION**





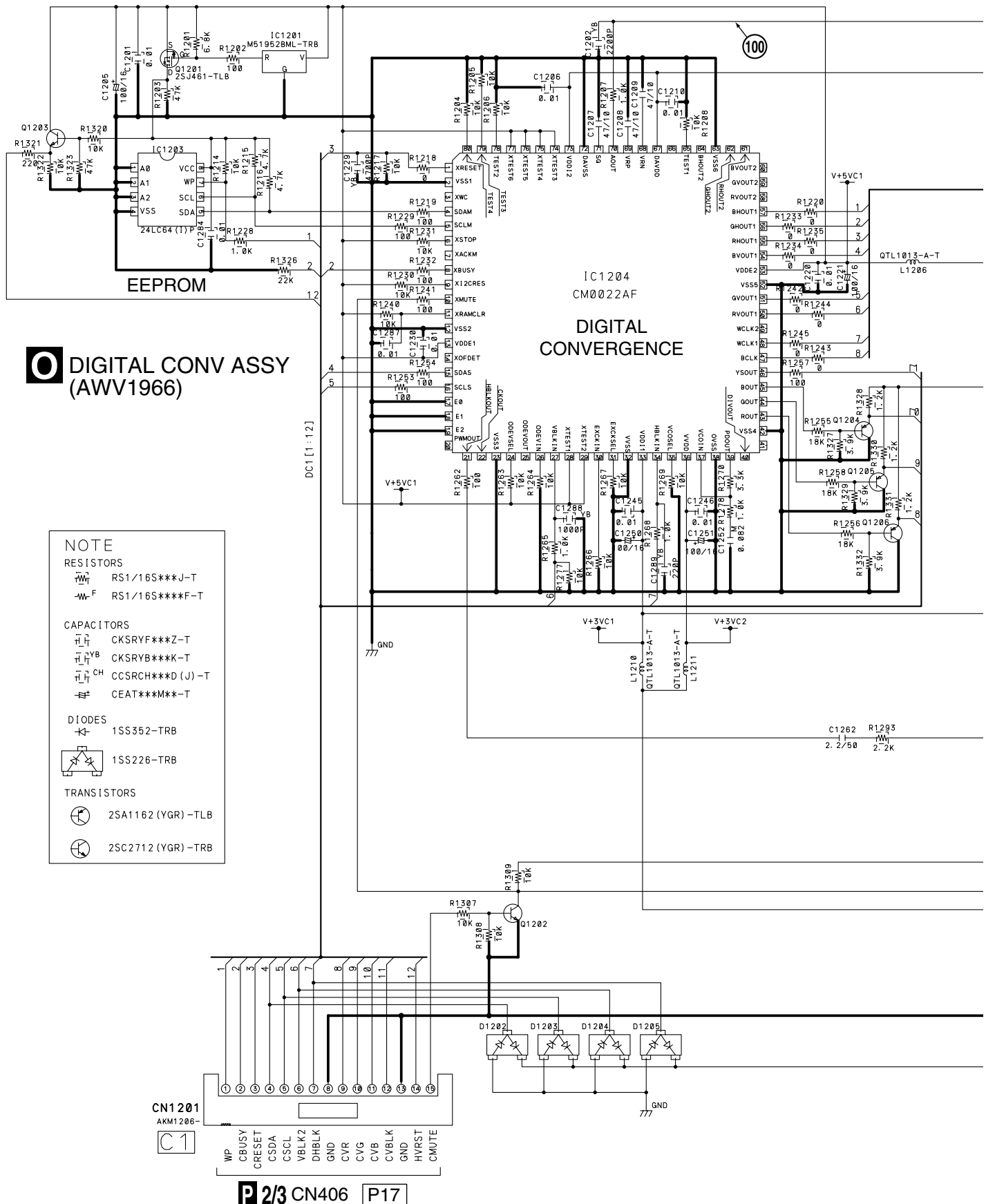
## N 2/2 DEFLECTION SERVICE ASSY (AWV1967)

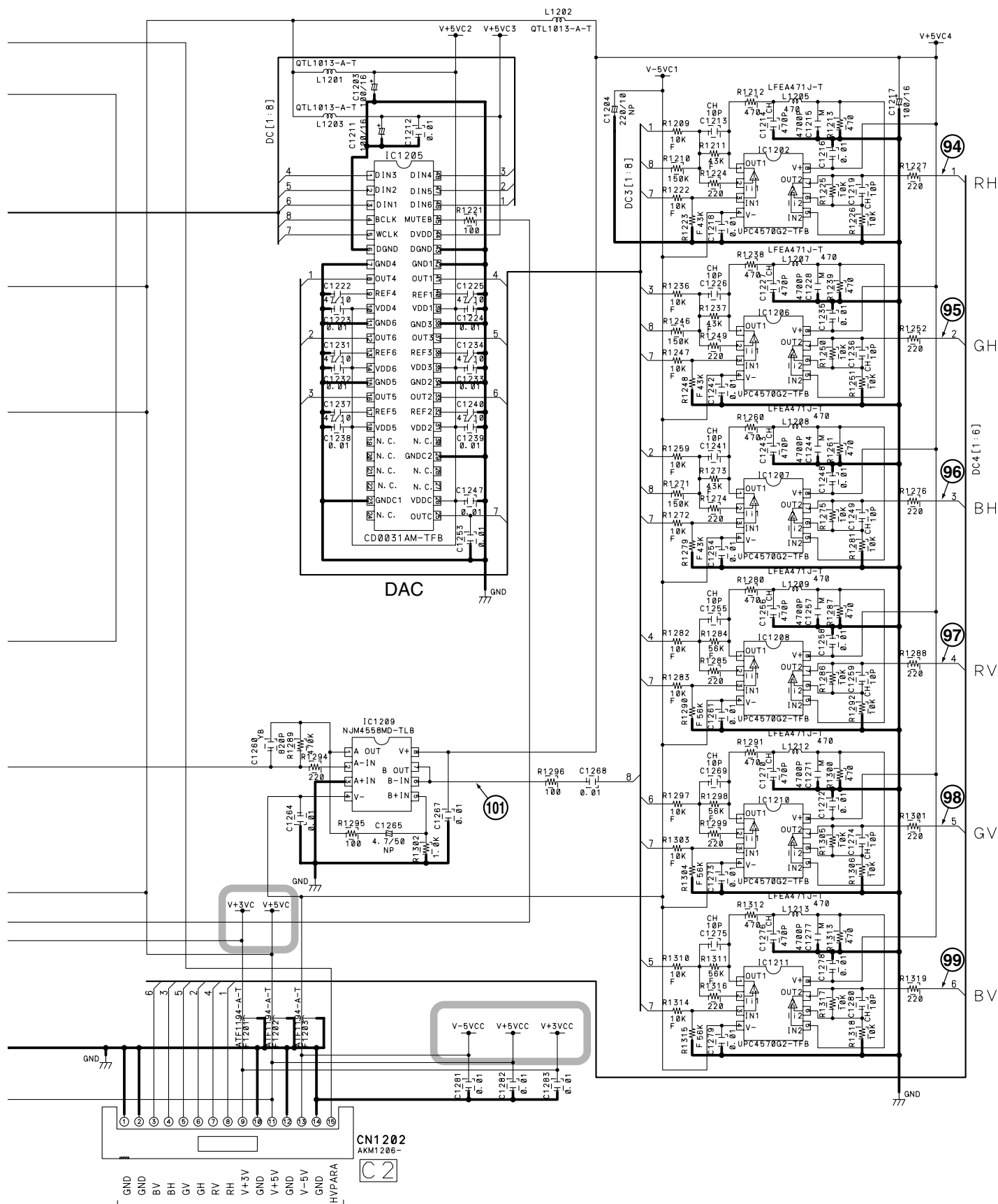
### • POWER SUPPLY BLOCK




## 4

**F**





**P 2/3** CN405 **P18**

 : The power supply is shown with the marked box.

## WAVEFORMS and VOLTAGES

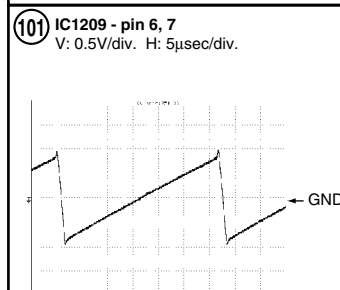
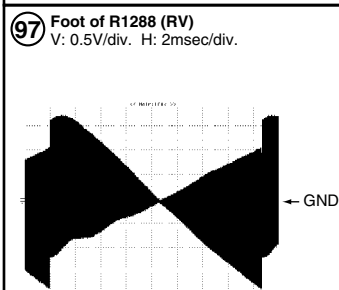
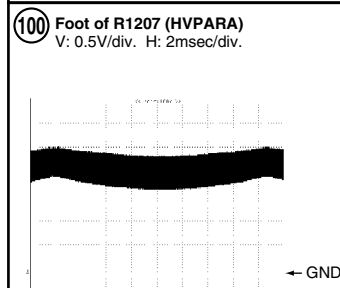
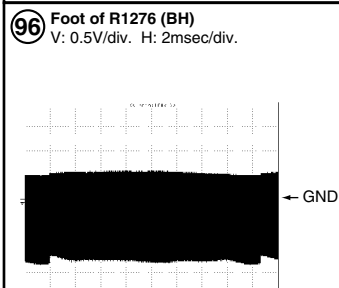
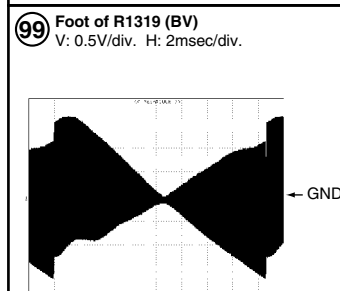
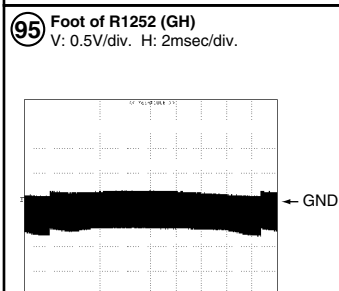
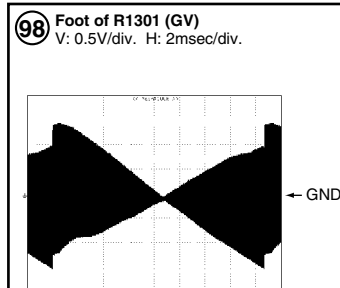
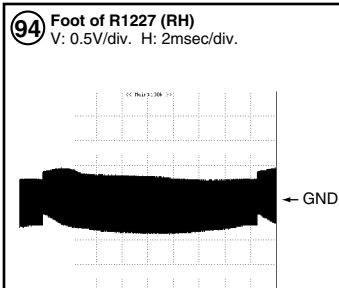
Note : The encircled numbers denote measuring point in the schematic diagram.

### DIGITAL CONV. ASSY

#### • Input signal

Input : INPUT 1 (COMPOSITE)

Video Signal : EIA color-bar



#### IC1204 (CM0022AF)

No	Voltage (V)	No	Voltage (V)
1	4.8	41	0
2	0	42	0
3	0	43	0
4	4.9	44	0
5	4.9	45	0
6	4.9	46	0
7	4.9	47	0-5
8	4.9	48	0-5
9	4.9	49	0
10	4.9	50	0-5
11	4.9	51	0-5
12	0	52	0
13	4.9	53	4.9
14	0	54	0-5
15	4.9	55	0-5
16	4.9	56	0-5
17	0	57	0-5
18	0	58	0
19	0	59	0
20	0	60	0
21	0-5	61	0
22	0	62	0
23	0	63	0
24	0	64	0
25	0	65	0
26	0	66	0
27	0-5	67	3.2
28	3.1	68	1.3
29	0	69	1.8
30	0	70	2.0
31	0	71	1.6
32	0	72	0
33	3.2	73	3.2
34	0-5	74	0
35	0	75	3.1
36	3.2	76	3.1
37	0	77	3.1
38	0	78	0
39	1.2	79	0
40	2.1	80	0

#### IC1205 (CD0031AM)

No	Voltage (V)
1	0-5
2	0-5
3	0-5
4	0-5
5	0-5
6	0
7	0
8	2.6
9	3.4
10	4.9
11	0
12	2.5
13	3.4
14	4.9
15	0
16	2.5
17	3.4
18	4.9
19	0
20	0
21	0
22	0
23	0
24	0
25	2.5
26	4.9
27	0
28	0
29	0
30	0
31	4.9
32	3.4
33	2.5
34	0
35	4.9
36	3.4
37	2.5
38	0
39	4.9
40	3.4
41	2.5
42	0
43	0
44	4.9
45	4.9
46	0-5
47	0-5
48	0-5

#### IC1202 (UPC4570G2)

No	Voltage (V)
1	-0.4
2	2.0
3	2.0
4	-5.0
5	-0.2
6	-0.2
7	-0.4
8	4.9

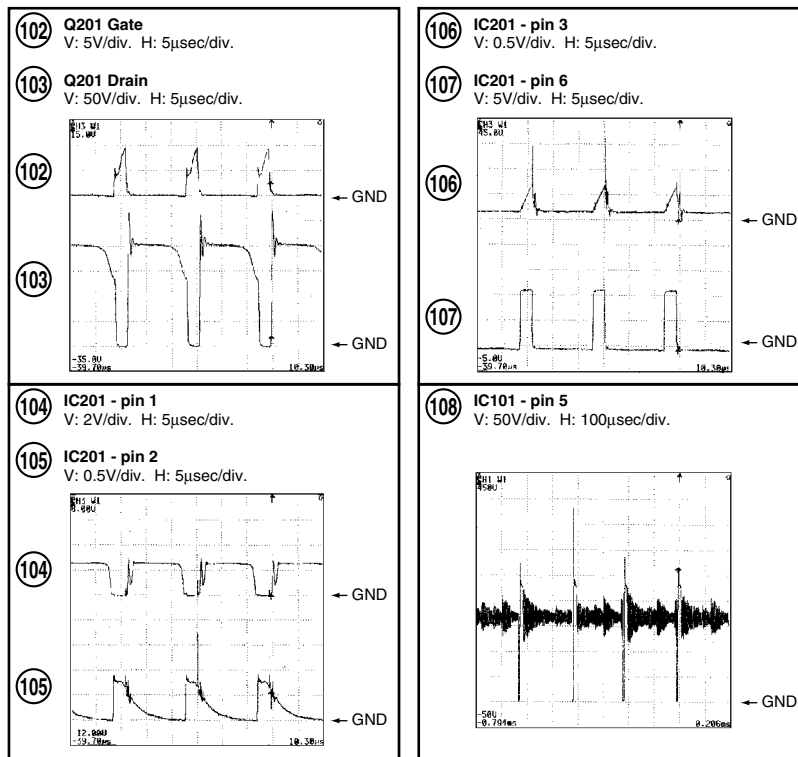
#### IC1209 (NJM4558MD)

No	Voltage (V)
1	0
2	0
3	0
4	-5.0
5	0
6	0
7	0
8	4.9

#### IC1206-IC1208, IC1210, IC1211 (UPC4570G2)

No	Voltage (V)
1	0
2	2.0
3	2.0
4	-5.0
5	0
6	0
7	0
8	4.9

# **P** 1/3 POWER SUPPLY ASSY



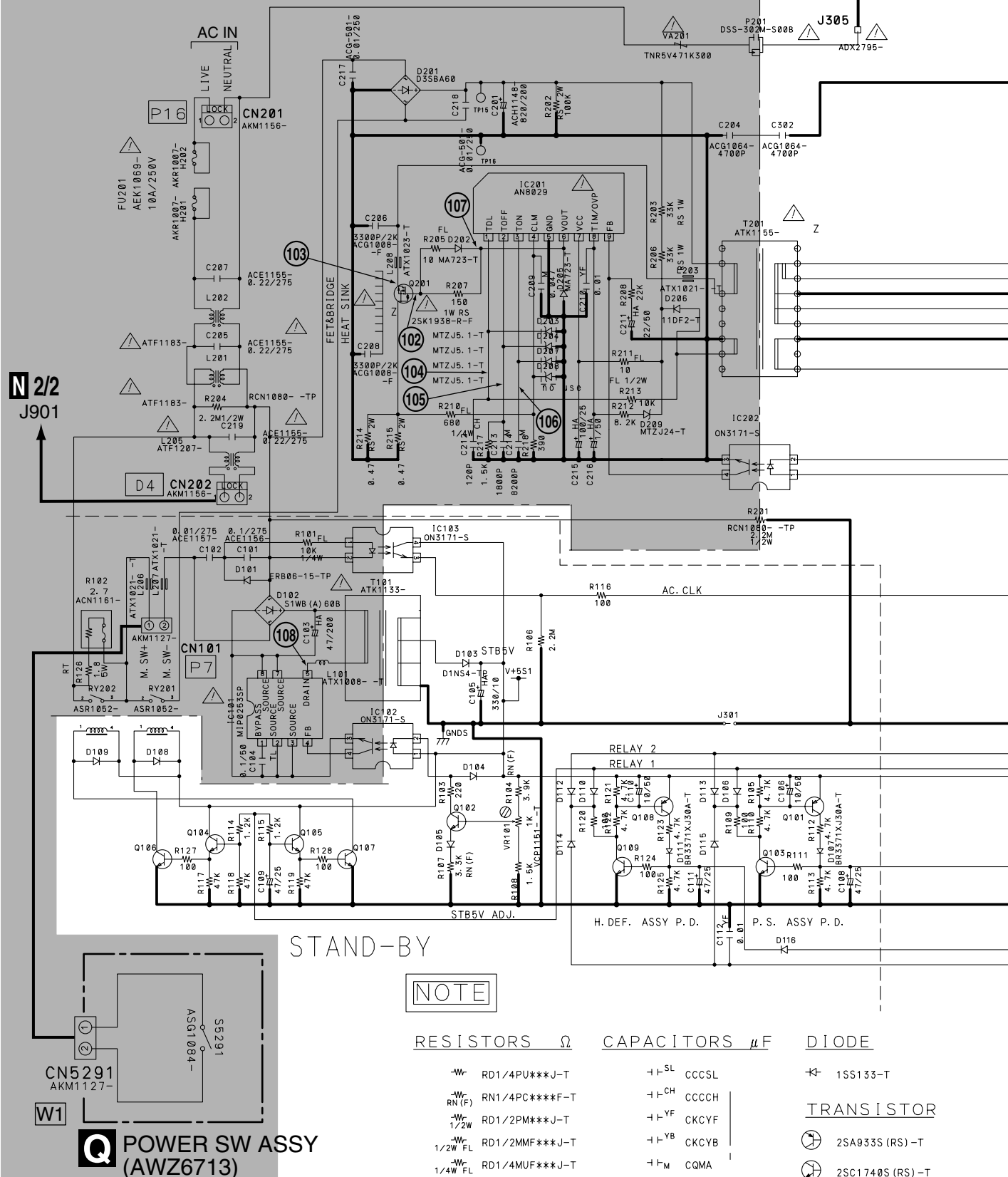
### 3.21 POWER SUPPLY ASSY (1/3)

**P 1/3** POWER SUPPLY ASSY (AWV1960)

- POWER SUPPLY BLOCK



TO REAR PANEL

RESISTORS  $\Omega$ CAPACITORS  $\mu F$ DIODE

## TRANSISTOR

-W-	RD1/4PU***J-T
-W- RN(F)	RN1/4PC****F-T
-W- 1/2W	RD1/2PM***J-T
1/2W FL	RD1/2MMF***J-T
1/4W FL	RD1/4MUF***J-T
-W- 1W	RS1MMF***J-T
-W- 2W	RS2MMF***J-T
-W- 5W	RT5PZ****K

$\vdash \vdash^{\text{SL}}$	CCCSL
$\vdash \vdash^{\text{CH}}$	CCCCH
$\vdash \vdash^{\text{YF}}$	CKCYF
$\vdash \vdash^{\text{YB}}$	CKCYB
$\vdash \vdash^{\text{M}}$	CQMA
$\vdash \vdash^{\text{TL}}$	CFTLA
<del><math>\vdash \vdash</math></del>	CEAT
<del><math>\vdash \vdash</math></del> <sub>HA</sub>	CEHAT

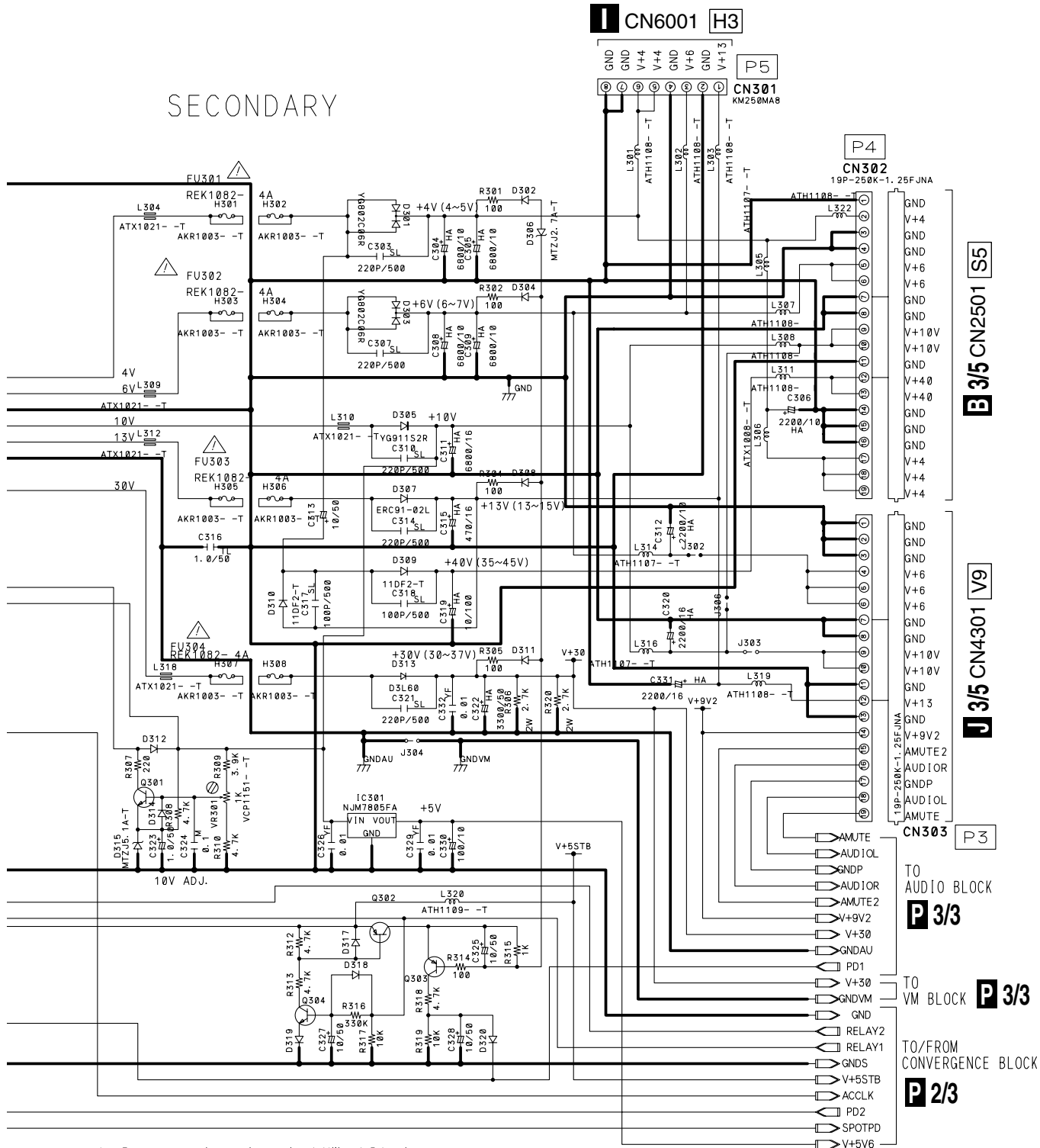
 1SS133-T  
TRANSISTOR  
 2SA933S (RS) -T  
 2SC1740S (RS) -T

**P 1/3 Q**

: CHARGED SECTION

PRO-730HD

## SECONDARY



\* Resistor indicated in ohm, 1/4W +/-5% tolerance unless otherwise noted. k:k ohm, M:M ohm

\* Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted. p:pF indication without voltage is 50V except Electrolytic capacitor.

\* The  $\Delta$  mark found on same component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.

### NOTE FOR FUSE REPLACEMENT

**CAUTION** -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.





## NOTE

RESISTORS  $\Omega$ 

RD1/4PU\*\*\*J-T

RD1/2PM\*\*\*J-T

RS1MMF\*\*\*J-T

RS2MMF\*\*\*J-T

RS3LMF\*\*\*J

CAPACITORS  $\mu F$ 

YF	CKCYF
----	-------

 CEAT


 CEHAT

 $\neg \vdash_{YB}$  CKCYB $\vdash \vdash_{SL} \quad C\text{CCSL}$ 

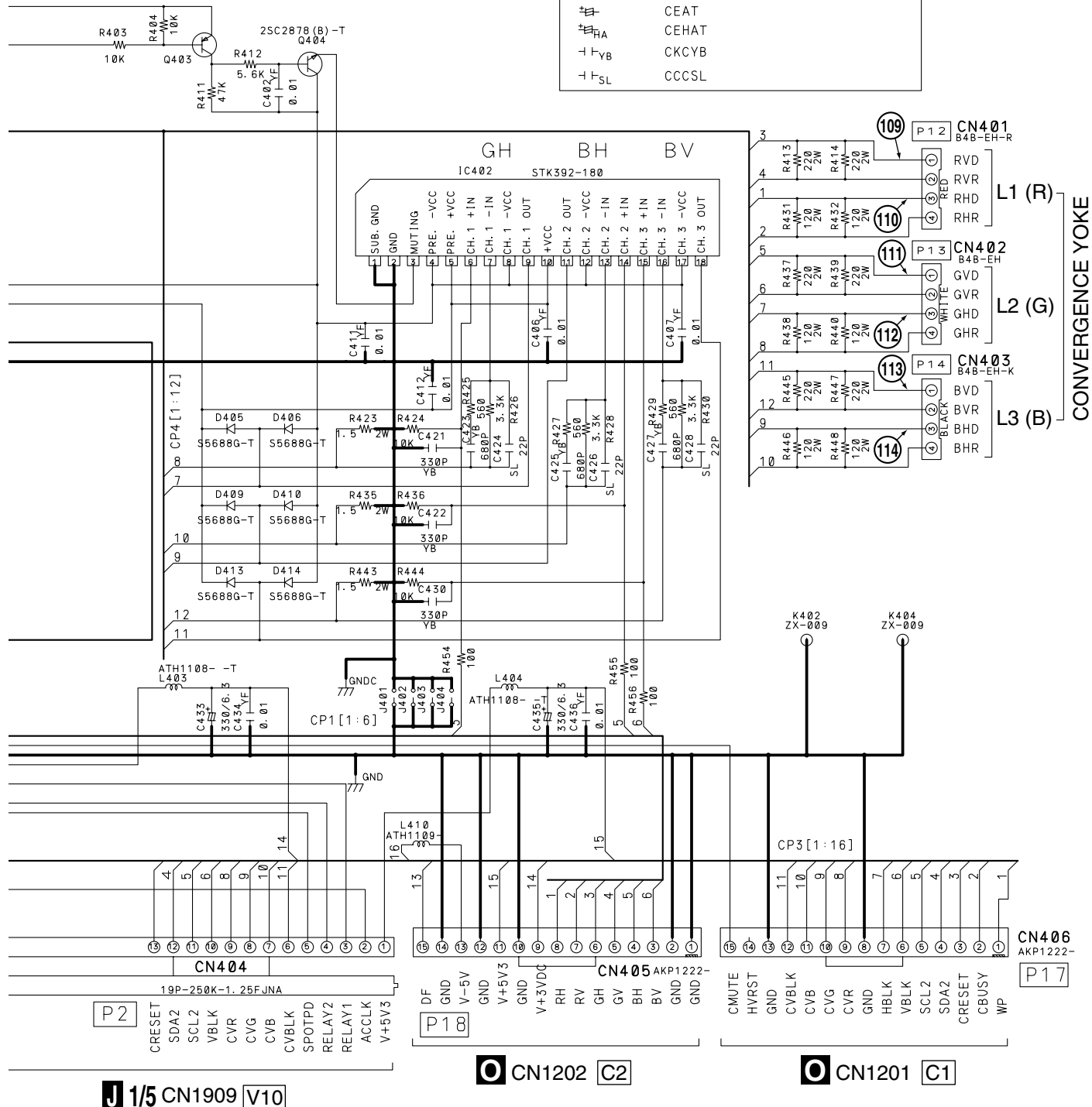
DIODE

1SS133-T

## TRANSISTORS

 2SC1740S (RS) -T

2SA933S (RS) -T



## WAVEFORMS and VOLTAGES

Note : The encircled numbers denote measuring point in the schematic diagram.

### P2/3 POWER SUPPLY ASSY

#### • Input signal

Input : INPUT 1 (COMPOSITE)

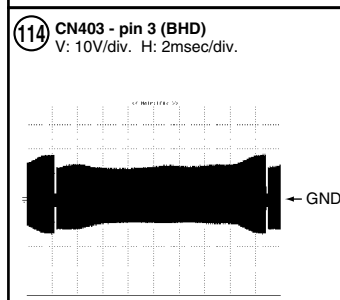
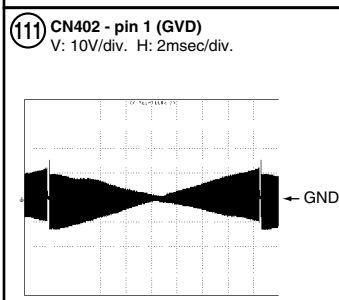
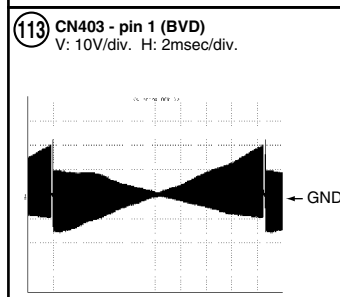
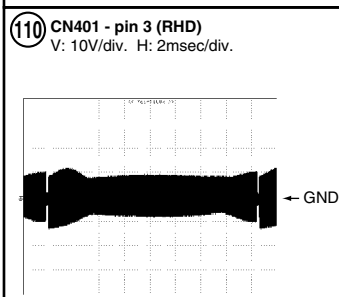
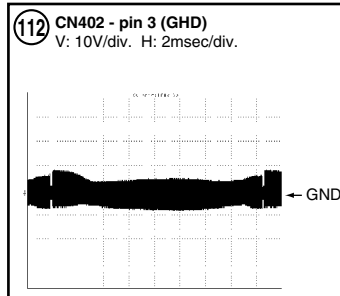
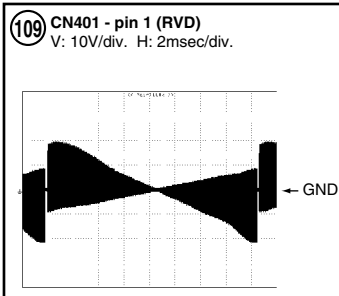
Video Signal : EIA color-bar

#### IC401 (STK392-180)

#### IC402 (STK392-180)

No	Voltage (V)
1	0
2	0
3	-19.0
4	-20.2
5	22.0
6	-
7	-
8	-20.2
9	-
10	22.0
11	-
12	-20.2
13	-
14	-
15	-
16	-
17	-20.2
18	-

No	Voltage (V)
1	0
2	0
3	-19.0
4	-20.2
5	22.0
6	-
7	-
8	-20.2
9	-
10	22.0
11	-
12	-20.2
13	-
14	-
15	-
16	-
17	-20.2
18	-



■

5

■

6

■

7

■

8

■

A

■

B

■

C

■

D

■

E

■

F

■

5

■

6

PRO-730HD

■

7

■

8

95

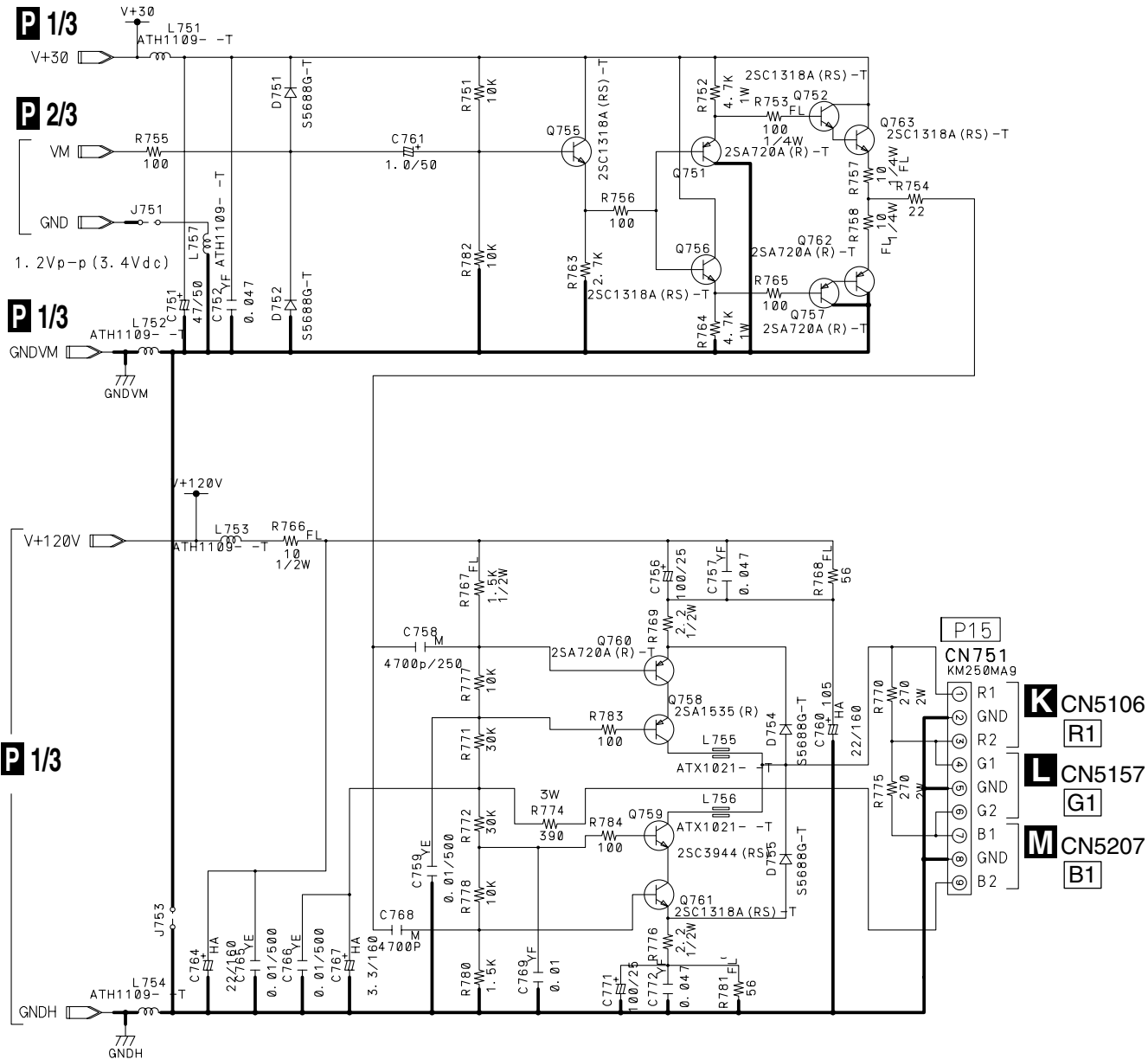
■

## 3.23 POWER SUPPLY ASSY (3/3)

### P 3/3 POWER SUPPLY ASSY (AWV1960)

- SVM and AUDIO POWER BLOCKS

#### • SVM BLOCK



NOTE

RESISTORS  $\Omega$  CAPACITORS  $\mu F$  TRANSISTOR

$\sim W$  RD1/4PU\*\*\*J-T

$\sim W$  RD1/2PM\*\*\*J-T

$\sim W$  RD1/4MUF\*\*\*J-T

$\sim W$  RS3PMF\*\*\*J

$\pm Y^F$  CKCYF

$\pm Y^B$  CKCYB

$\pm M$  CQMA

$\pm TL$  CFTLA

$\pm CEAT$

$\pm CEHAT$

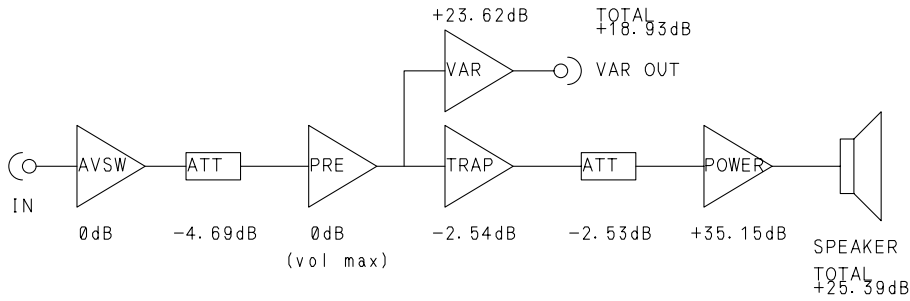
$\pm$  2SA933S (RS) -T

$\pm$  2SC1740S (RS) -T

DIODE

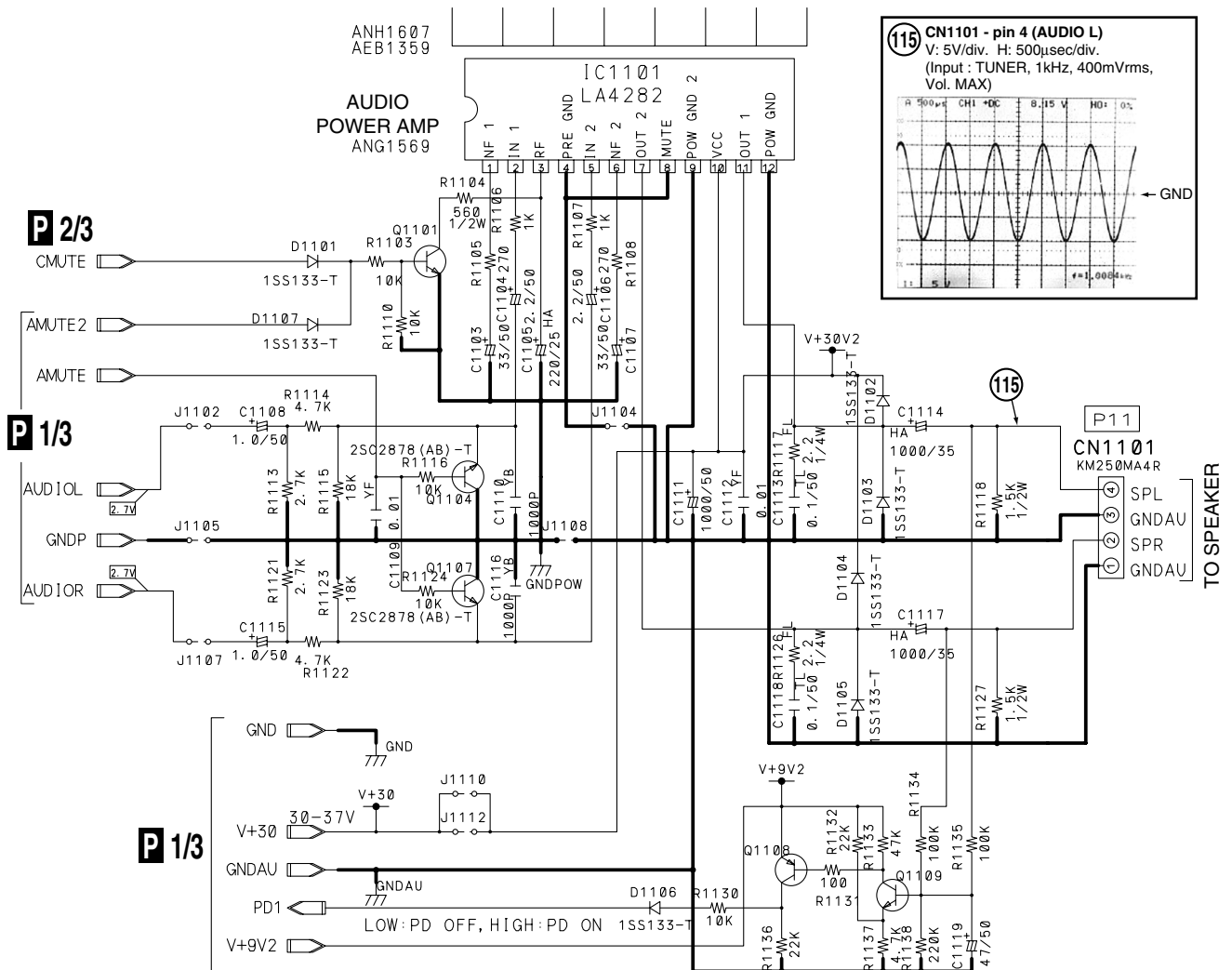
$\pm$  1SS133-T

## • AUDIO POWER BLOCK



IC1101 (LA4282)

No	Voltage (V)
1	1.1
2	0.7
3	17.2
4	0
5	0.7
6	1.1
7	17.2
8	0
9	0
10	34.9
11	17.2
12	0



1 2 3 4

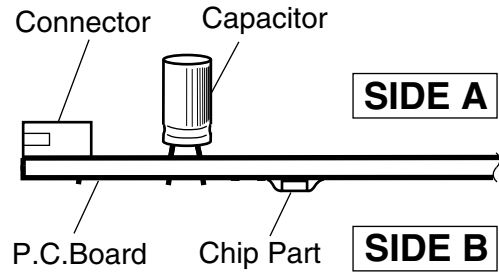
# 4. PCB CONNECTION DIAGRAM

## NOTE FOR PCB DIAGRAMS :

- A
- 1. Part numbers in PCB diagrams match those in the schematic diagrams.
  - 2. A comparison between the main parts of PCB and schematic diagrams is shown below.

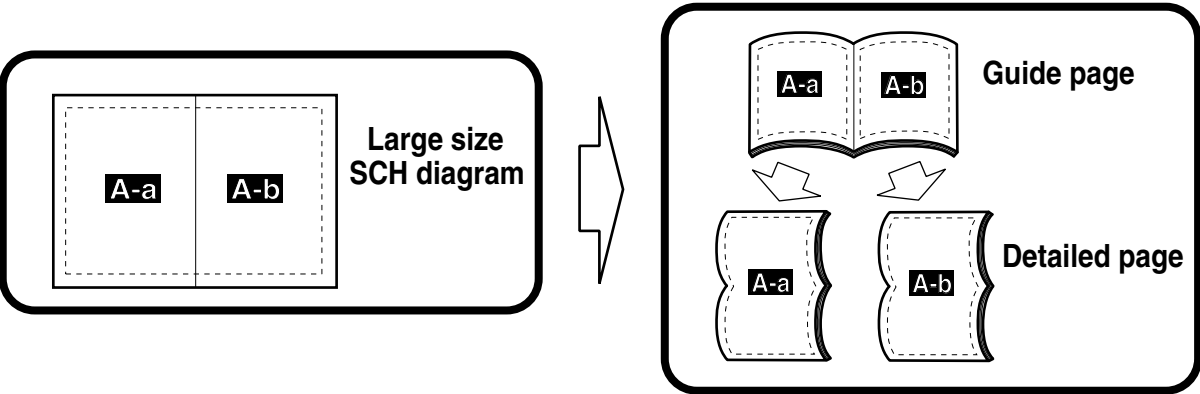
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

- 3. The parts mounted on this PCB include all necessary parts for several destinations.  
For further information for respective destinations, be sure to check with the schematic diagram.
- 4. View point of PCB diagrams.



C

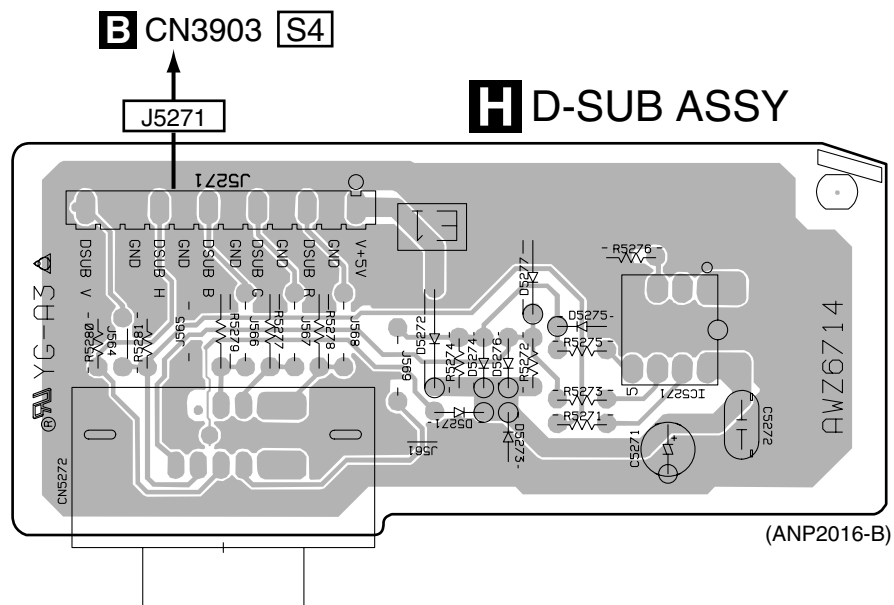
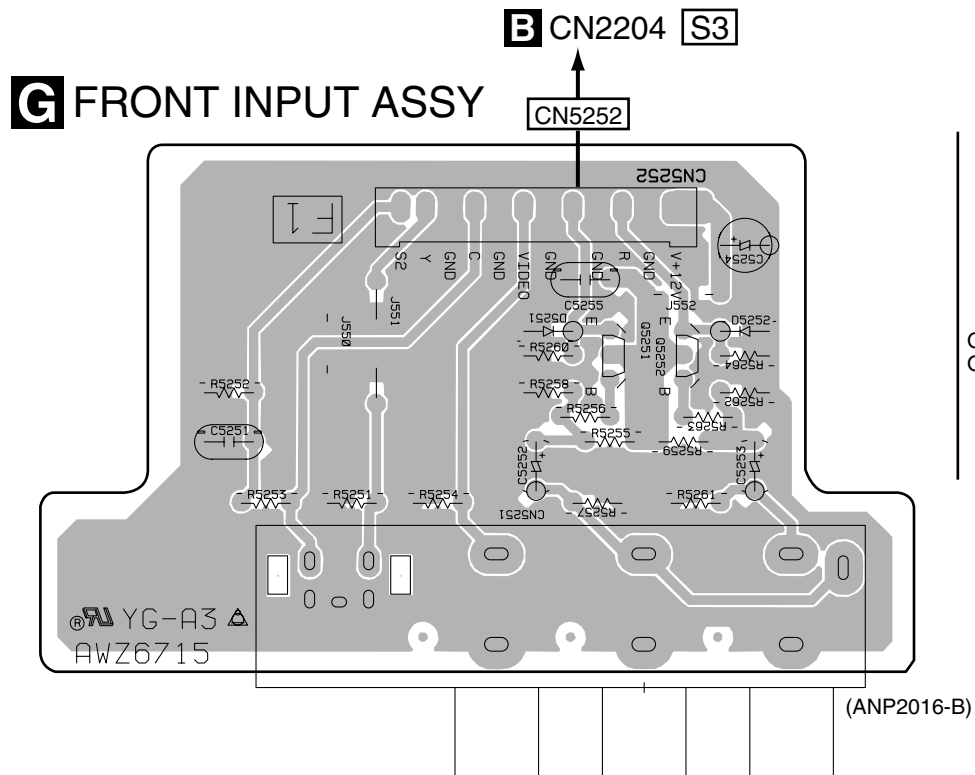
### • For DEFLECTION SERVICE and POWER SUPPLY ASSYS



## 4.1 FRONT INPUT and D-SUB ASSYS

**SIDE A**

**SIDE A**



**G H**

**G H**

## 4.2 TUNER ASSY

**SIDE A**

**SIDE A**

**A** TUNER ASSY

RF SWITCH

J5301

YG-A3

AXF1103-

J5303

Q5404  
Q5402 Q5401  
Q5303  
IC5301 Q5403  
Q5304 IC5302  
Q5305  
Q5405

Q5301  
Q5309  
Q5306  
Q5311 Q5308  
Q5302 Q5307  
Q5310

(ANP2016-B)

CN5302

CN5302

**B** CN2207 S13

**A**

**A**

PRO-730HD

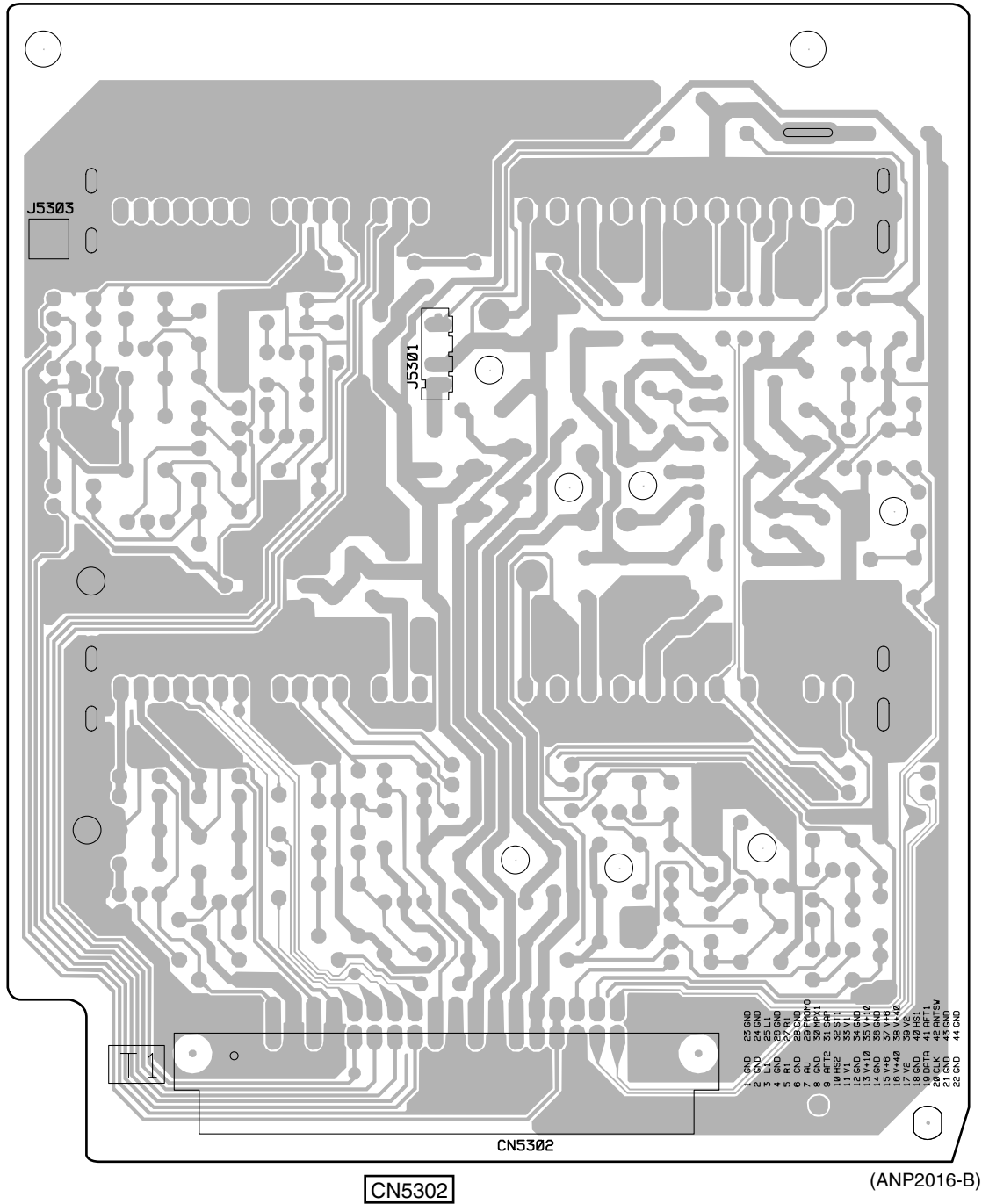


SIDE B

SIDE B

**A** TUNER ASSY

J5301



**A**

**A**

# 4.3 SIGNAL ASSY

**SIDE A**

## **B** SIGNAL ASSY

**A** CN5302 **T1**

**J** CN1906 **V4**

**J** CN2801 **V5**

**J** CN2803 **V6**

CN2207

CN2208

CN2601

CN2701

CN2701

Q2609 Q2607  
Q2608

IC2603  
Q2707 Q2710  
Q2706 IC2703  
Q2713 Q2708

Q2606 Q2709  
Q2605 Q2705  
Q2604 Q2704  
Q2603 IC2602 Q2703  
Q2602 IC2702

IC2701  
Q2517 Q2516

Q2510 Q2514  
Q2515

Q2506 Q2701  
Q2501 Q2211  
Q2511  
Q2513 Q2512  
Q2702

Q2504 IC2505

Q2509 Q2506

IC2503 IC2201

Q2505

Q2210 Q2216 Q2223  
Q2209 Q2215 Q2227

Q2208 Q2214 Q2222  
IC2504  
IC1804

CN1802

**F** CN5030 **L1**

CN2201

**I** CN60



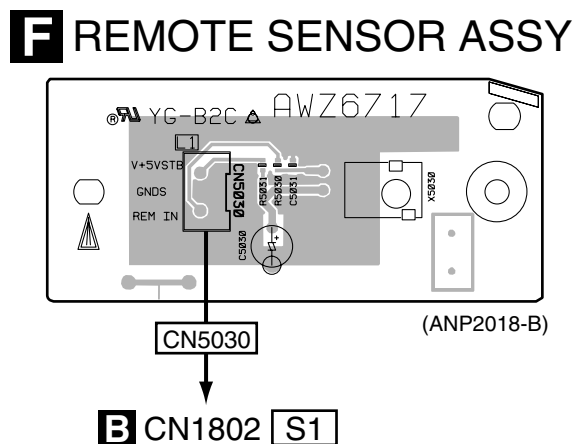
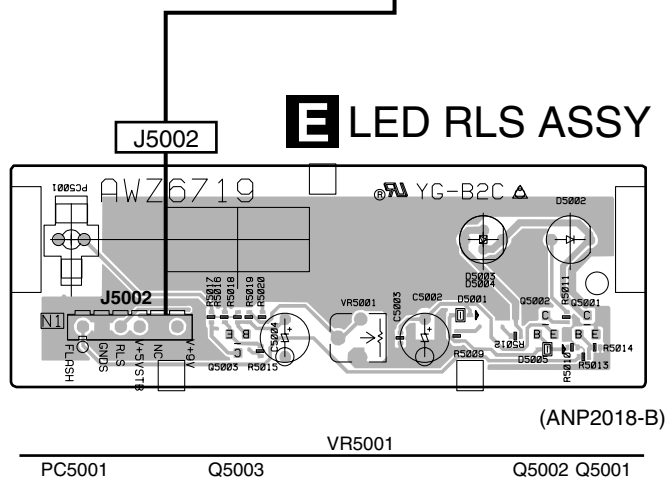
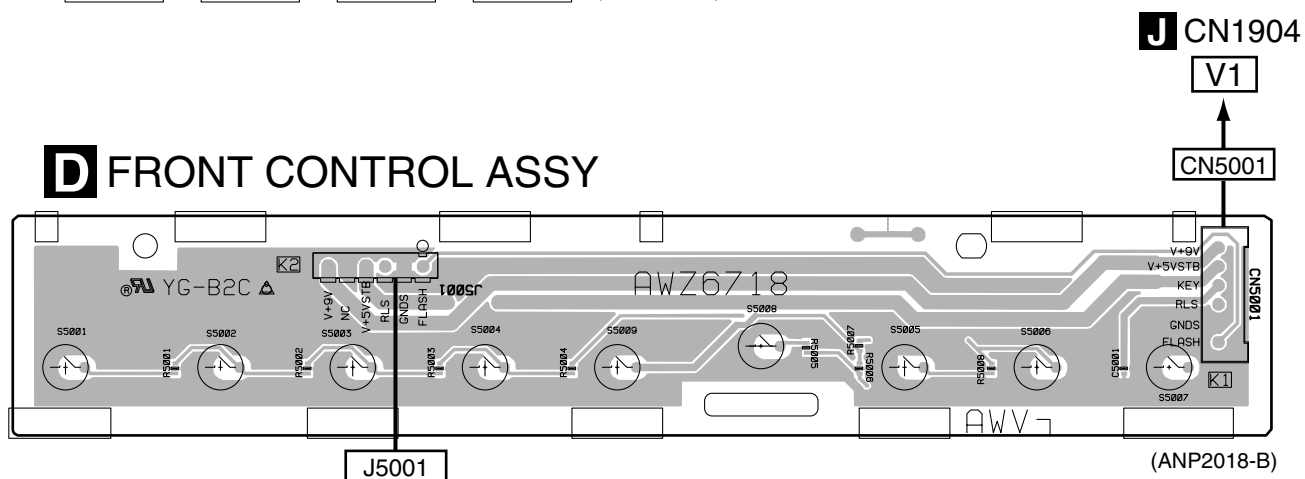
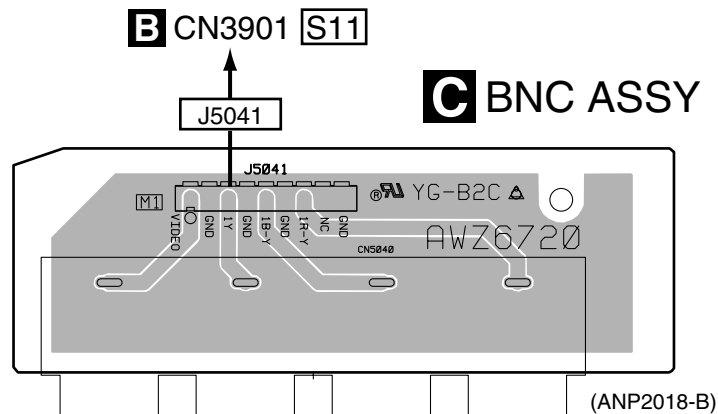




## 4.4 BNC, FRONT CONTROL, LED RLS and REMOTE SENSOR ASSYS

**SIDE A**

**SIDE A**



**C D E F**

**C D E F**



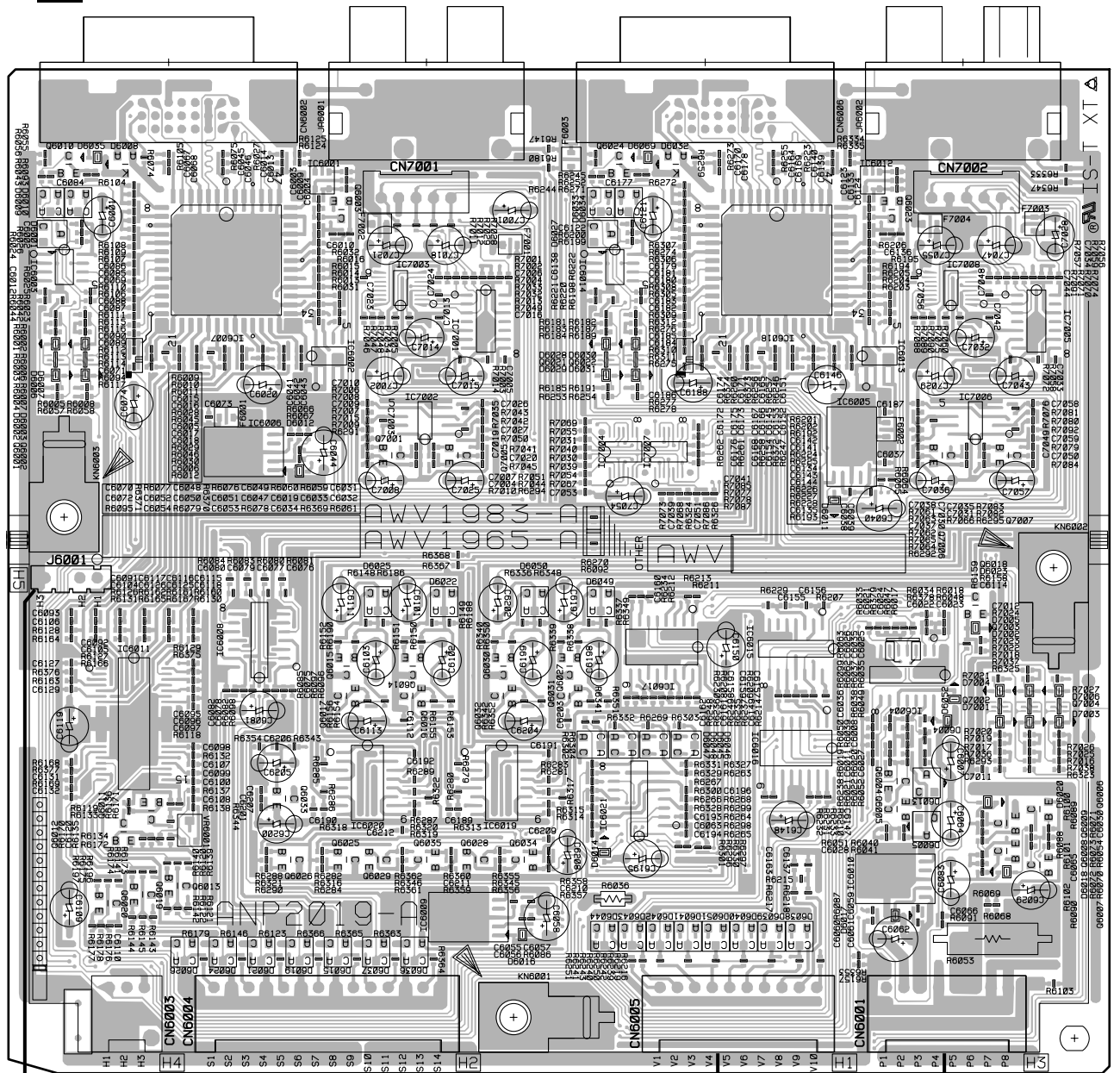
## 4.5 DVI SERVICE ASSY

**SIDE A**

**SIDE A**

IC6003 Q6010 IC6007 IC6001 Q6003 IC7003 IC7001  
IC6006 IC6002 Q7001 IC7002 Q7005 Q6024  
IC6008 Q6015 Q6014 Q6030 Q6027 IC6014  
Q6017 Q6014 Q6032 Q6031 IC7004 IC7007  
IC6018 IC6013 IC7008 IC7005  
IC6005 Q7006 IC7006 Q7007  
IC6015 IC6004 Q7003  
IC6016 Q6004 Q6005 Q6009 Q6006  
Q6010 Q6008 Q6007

### DVI SERVICE ASSY



J6001  
DET SW

**B** CN3904 **B** CN2205  
S12 S2

**J** CN1901 V2 **P** CN301 P5

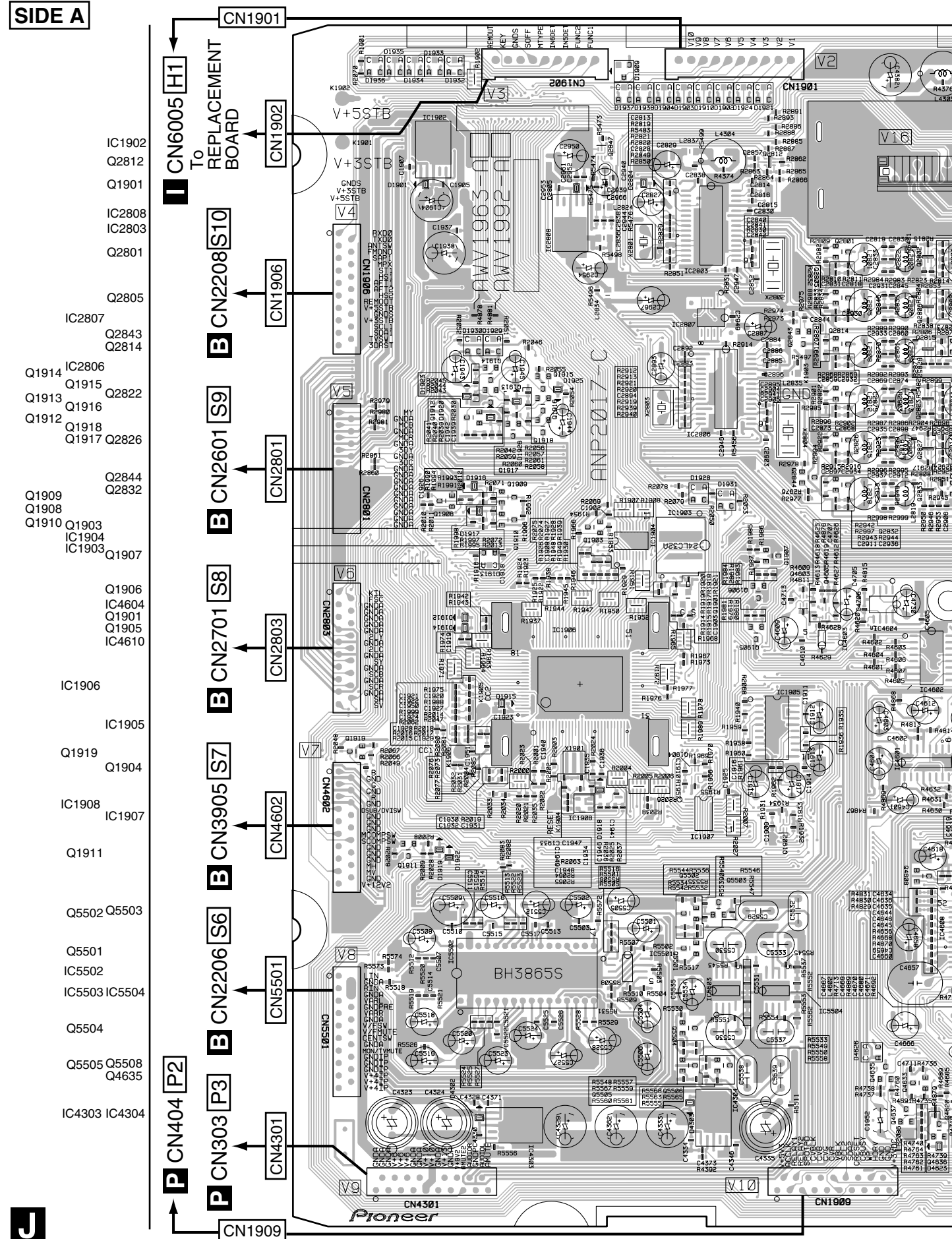
(ANP2019-A)

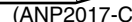




# 4.6 VIDEO UCOM SERVICE ASSY

**SIDE A**





F

Q

□

F

F



SIDE B

A

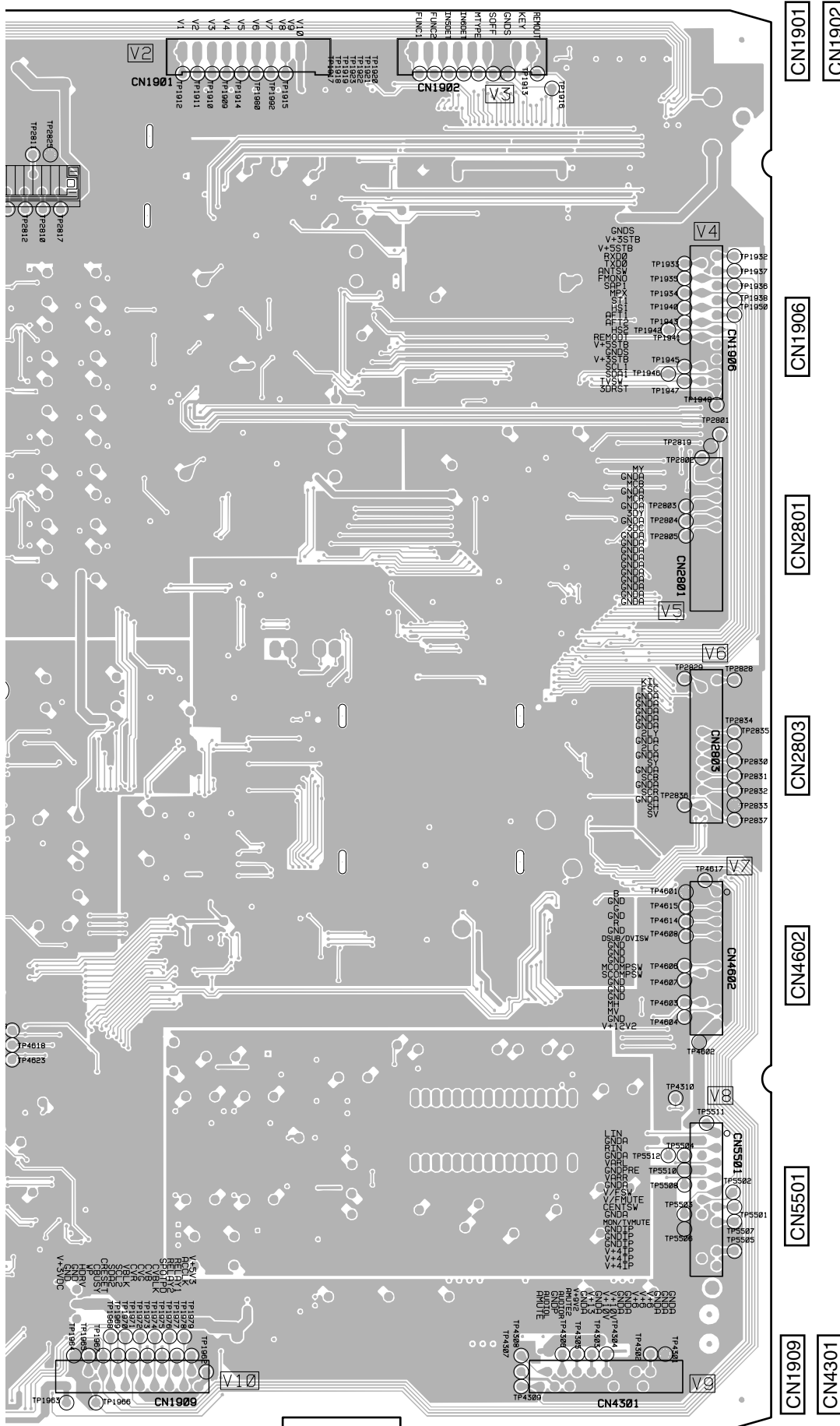
B

C

D

E

F



(ANP2017-C)

PRO-730HD

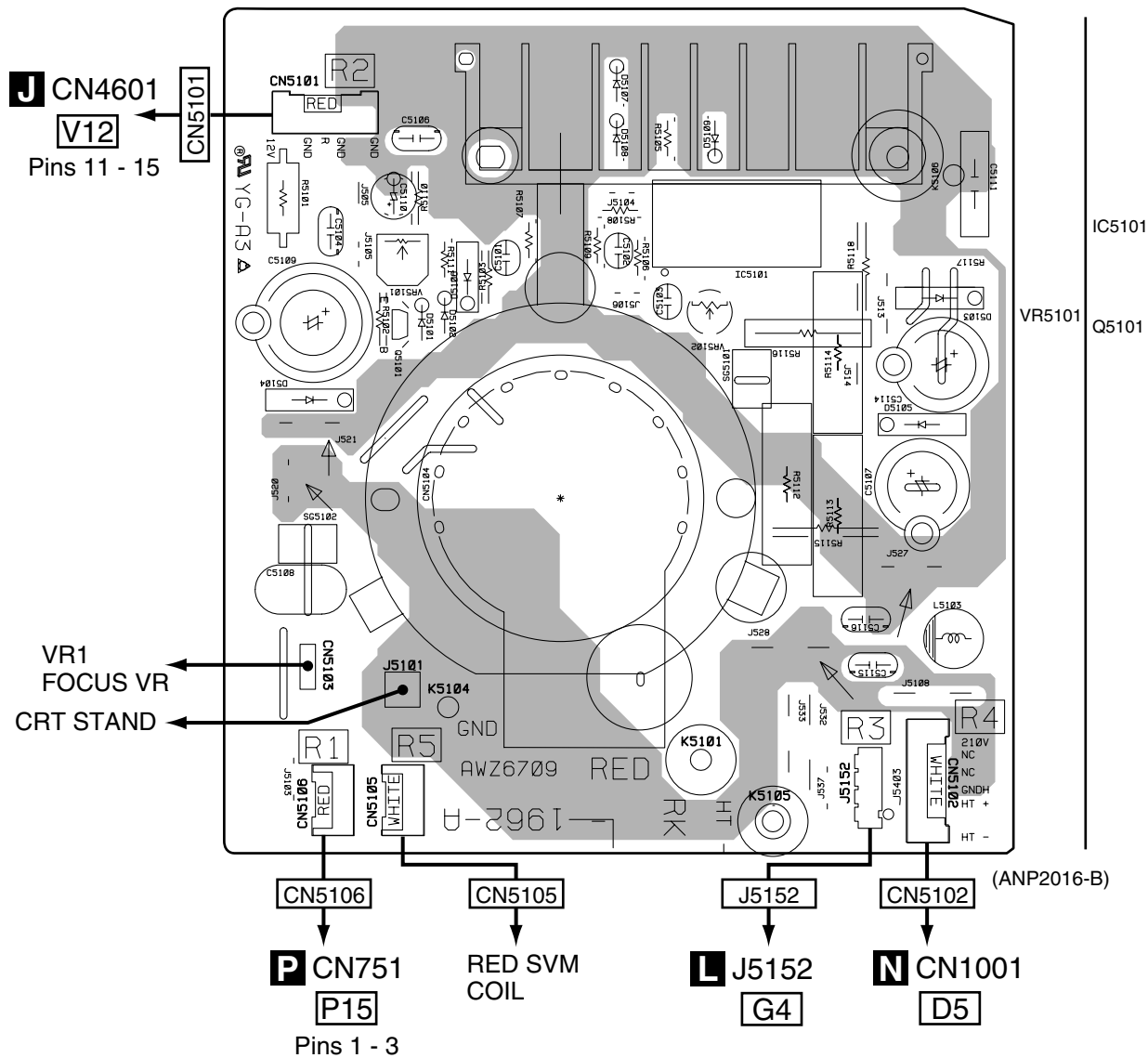
J

## 4.7 R CRT DRIVE ASSY

**SIDE A**

**SIDE A**

### **K** R CRT DRIVE ASSY



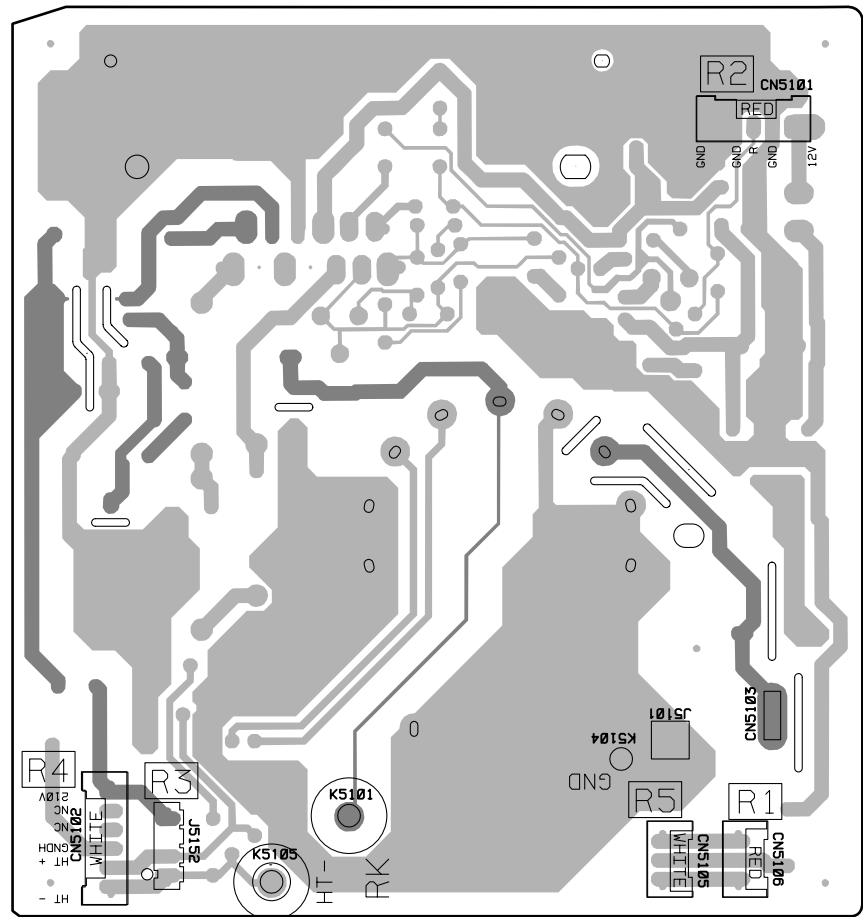
**K**

**K**

SIDE B

SIDE B

# K R CRT DRIVE ASSY



CN5102 J5152

CN5105 CN5106 (ANP2016-B)

mark shows a high voltage generation point.

K

K

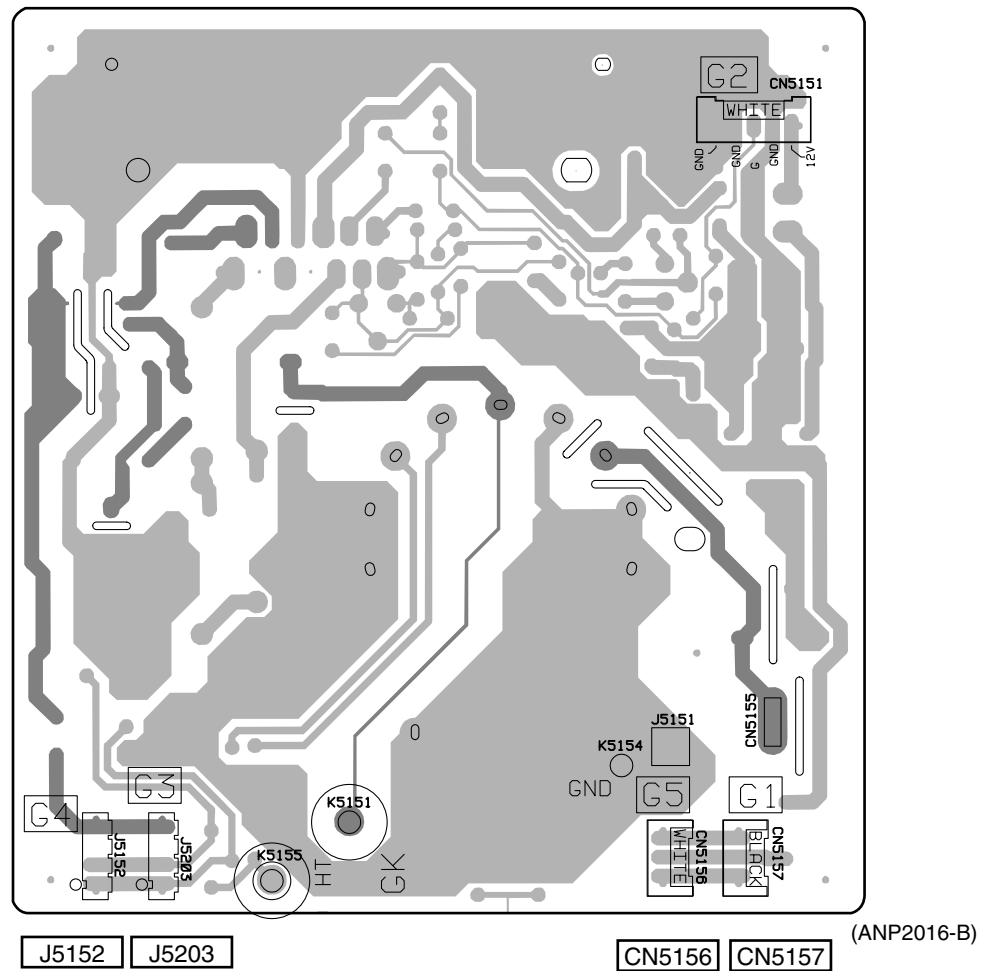




SIDE B

SIDE B

## L G CRT DRIVE ASSY



L

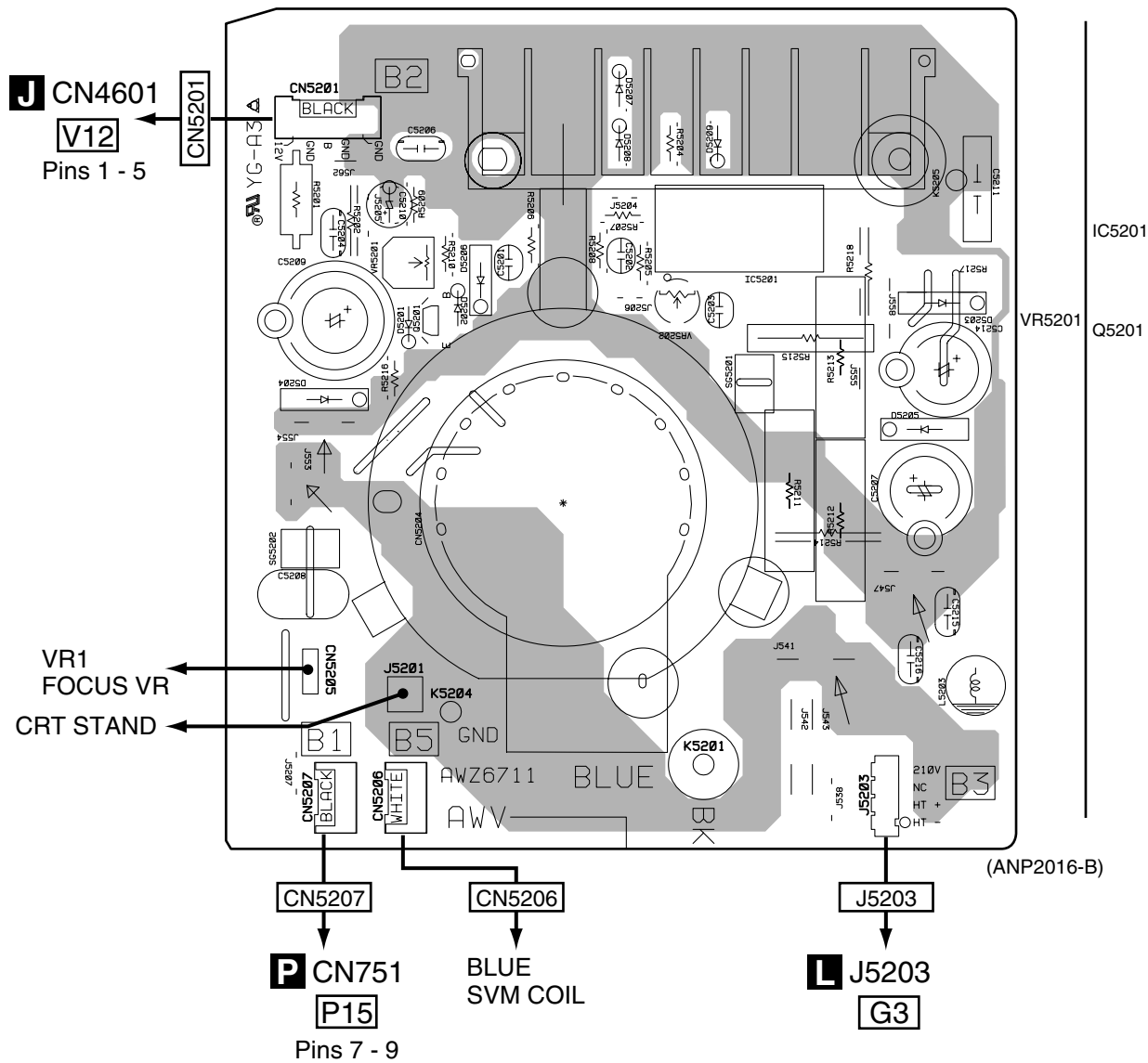
L

## 4.9 B CRT DRIVE ASSY

**SIDE A**

**SIDE A**

### **M** B CRT DRIVE ASSY



**M**

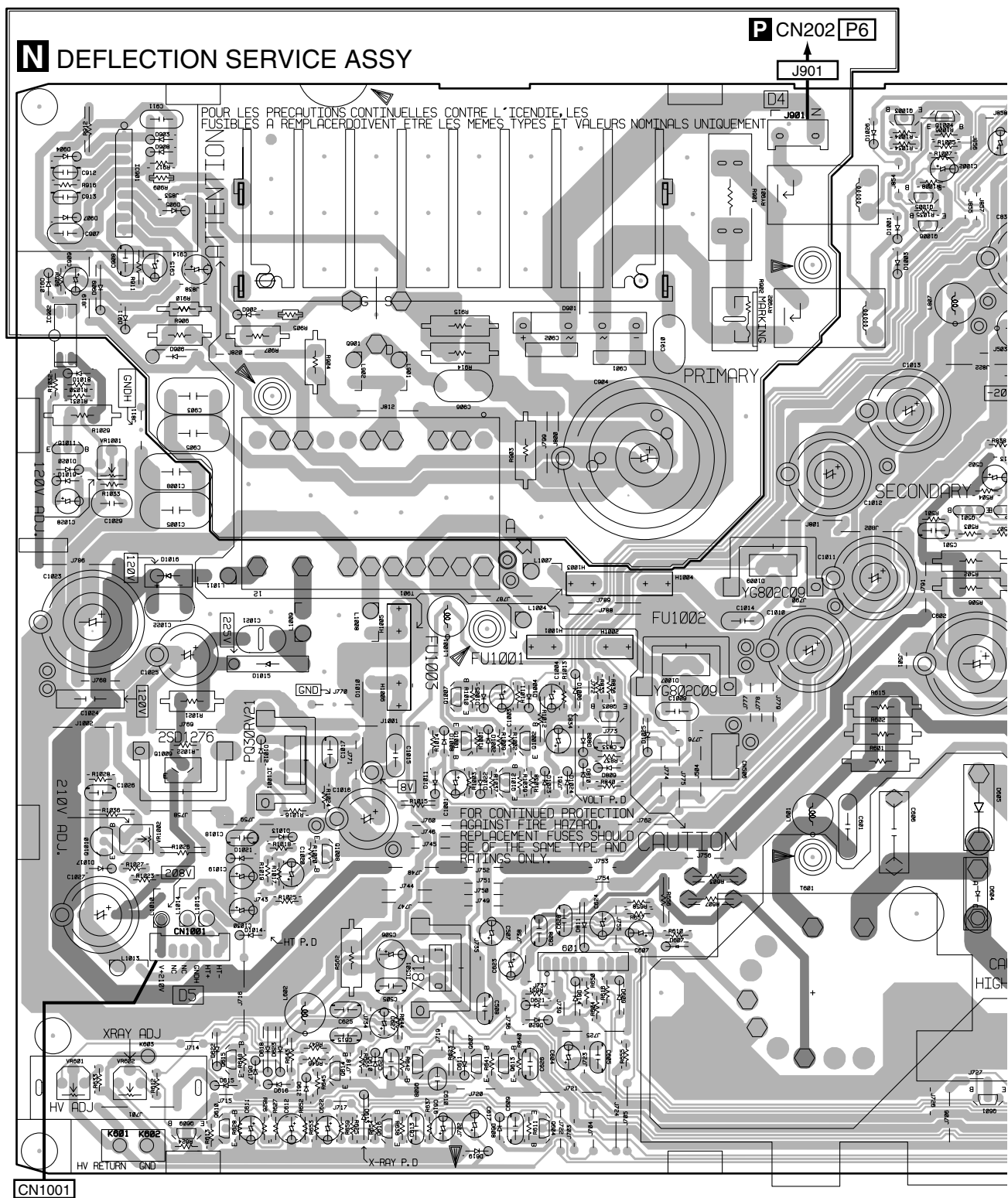
**M**



## 4.10 DEFLECTION SERVICE ASSY

**SIDE A**

**N-a**



**K** CN5102 **R4**

 Charged section  
 mark shows a high voltage generation point.

VR1001 VR1002  
VR601 VR602

VR901	VR902
IC902	IC901

Q1009

Q609

IC1001 Q1008

Q614

---

Q1007

Q1001

C501

Q603

Q604

---

Q1003 – Q1006

501

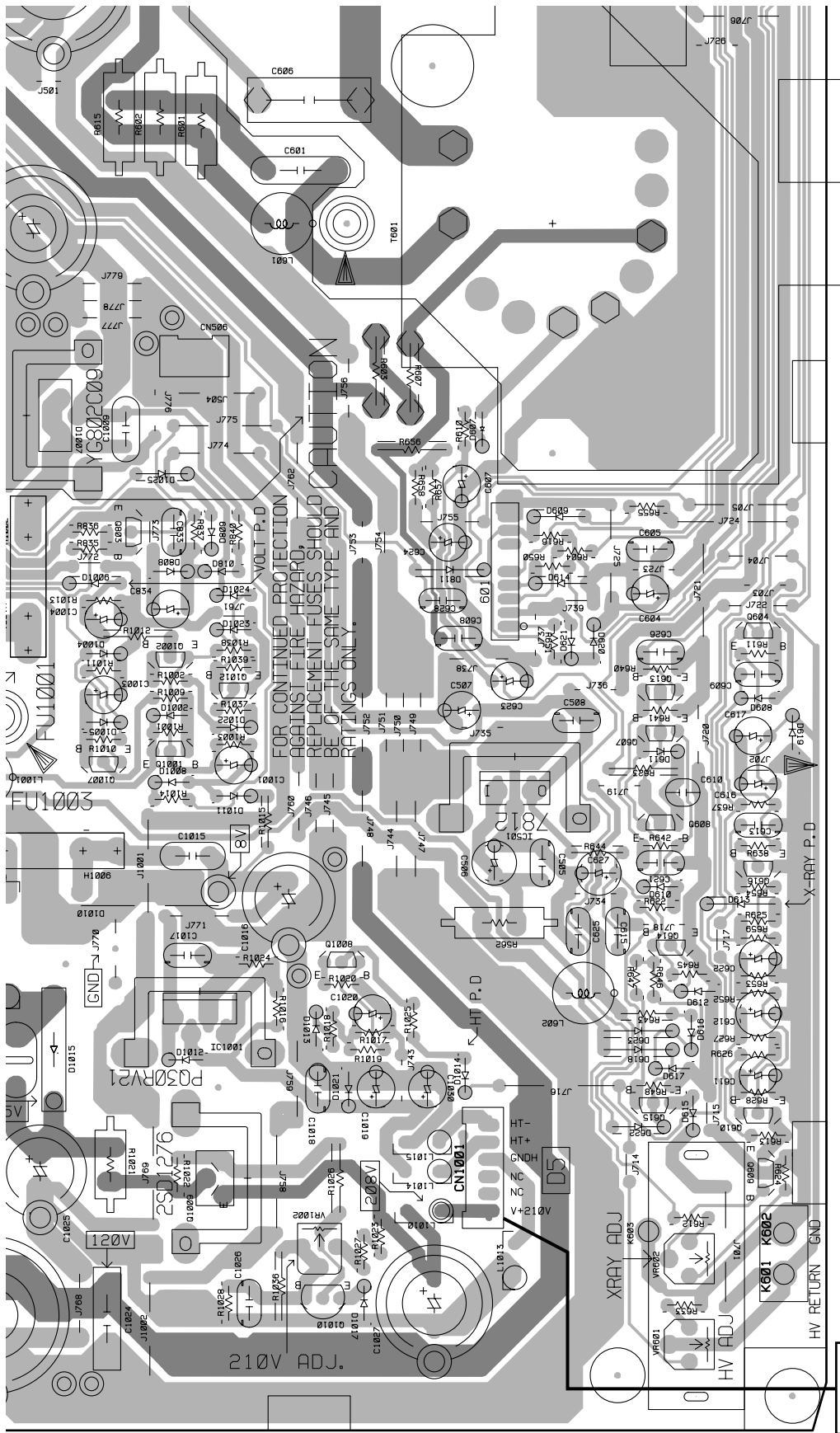
Q601

**N**



PRO-730HD





Charged section

mark shows a high voltage generation point.

**K** CN5102 **R4**

**CN1001**

VR1001 VR1002  
VR601 VR602

IC902 IC901  
Q9011 Q1010

Q1009 Q615  
Q609 Q610

Q1007 Q603  
Q1001 Q1002

IC501 Q1012  
Q608 Q607 Q613

Q616 Q604

Q1003 - Q110

**N-a N-b**

**N**

SIDE A

A

B

C

D

E

F

N-a N-b

P CN408 P9

P CN410 P10

P CN409 P8

CN501

J506

CN502

CN504

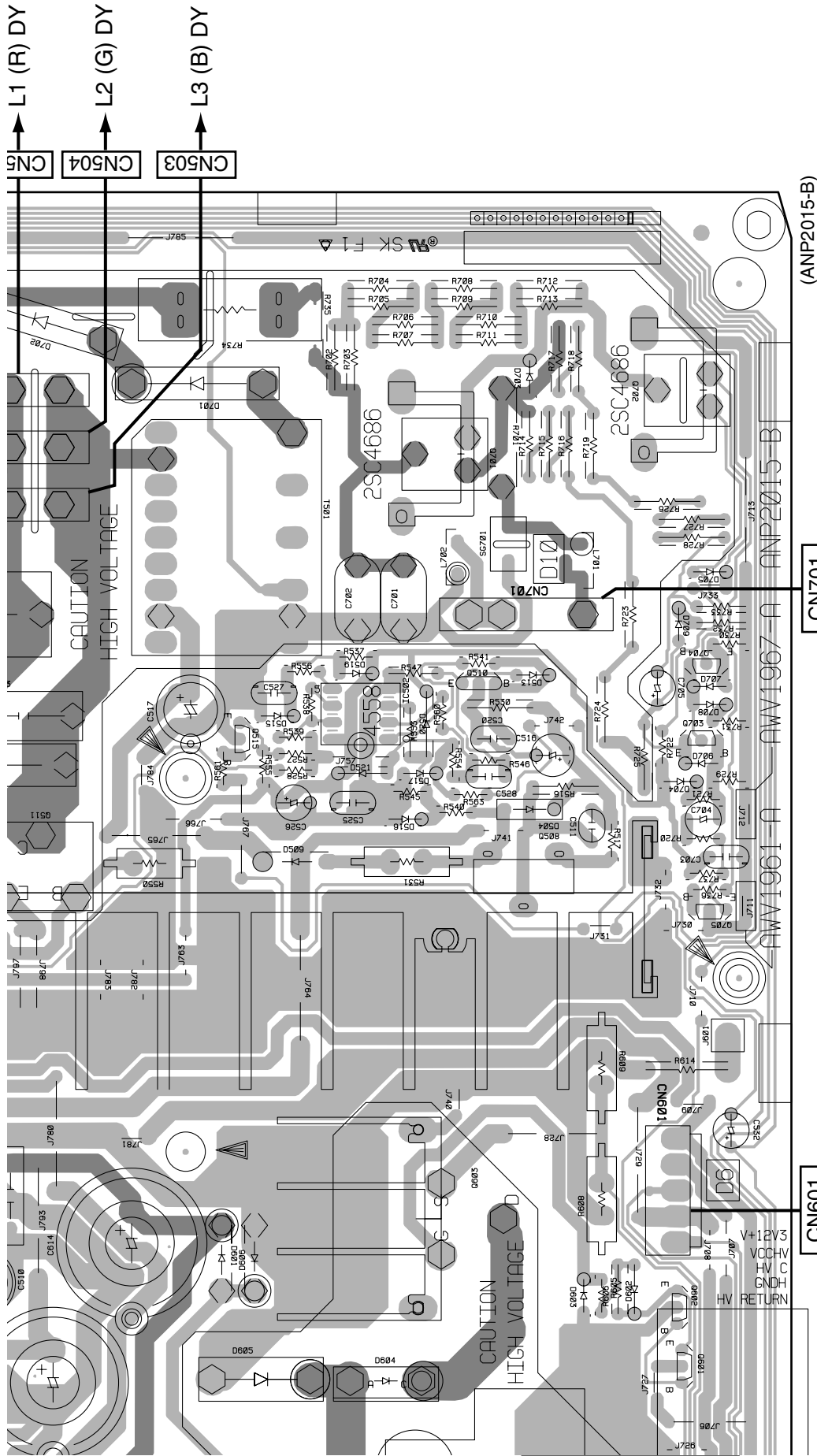
CN505

L1 (R) DY

L2 (G) DY

CAUTION  
HIGH VOLTAGE





VR1 FOCUS VR

HV CR BLOCK

-Q1006	Q502	Q804	IC802	IC803	IC804	Q513	Q507
Q501	Q602	Q803	Q511	Q705	Q515	Q512	Q506
Q601					IC502	Q504	Q505
					Q703	Q701	Q509
						Q702	

**N-a N-b**

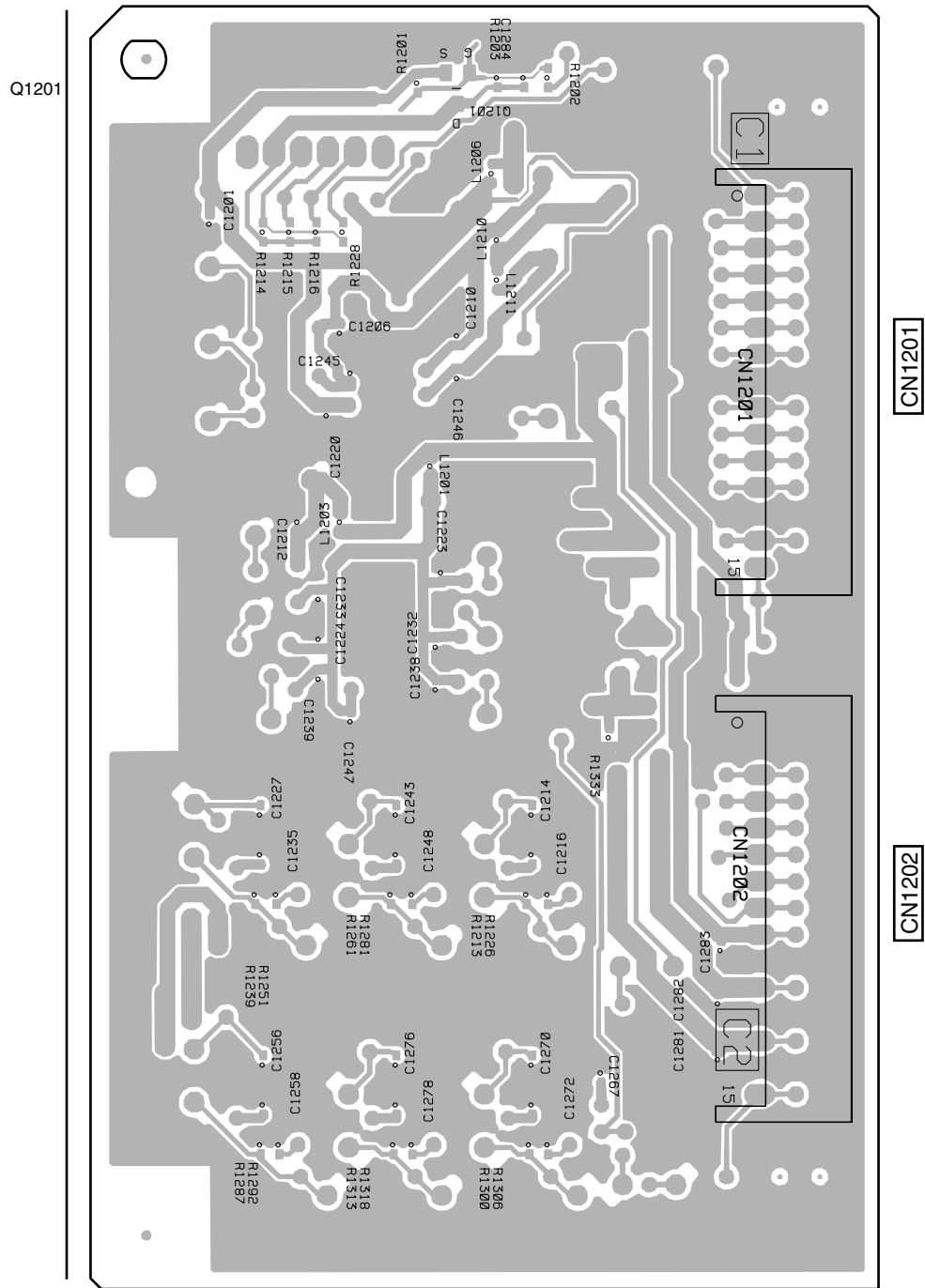
**N**



SIDE B

SIDE B

# DIGITAL CONV. ASSY

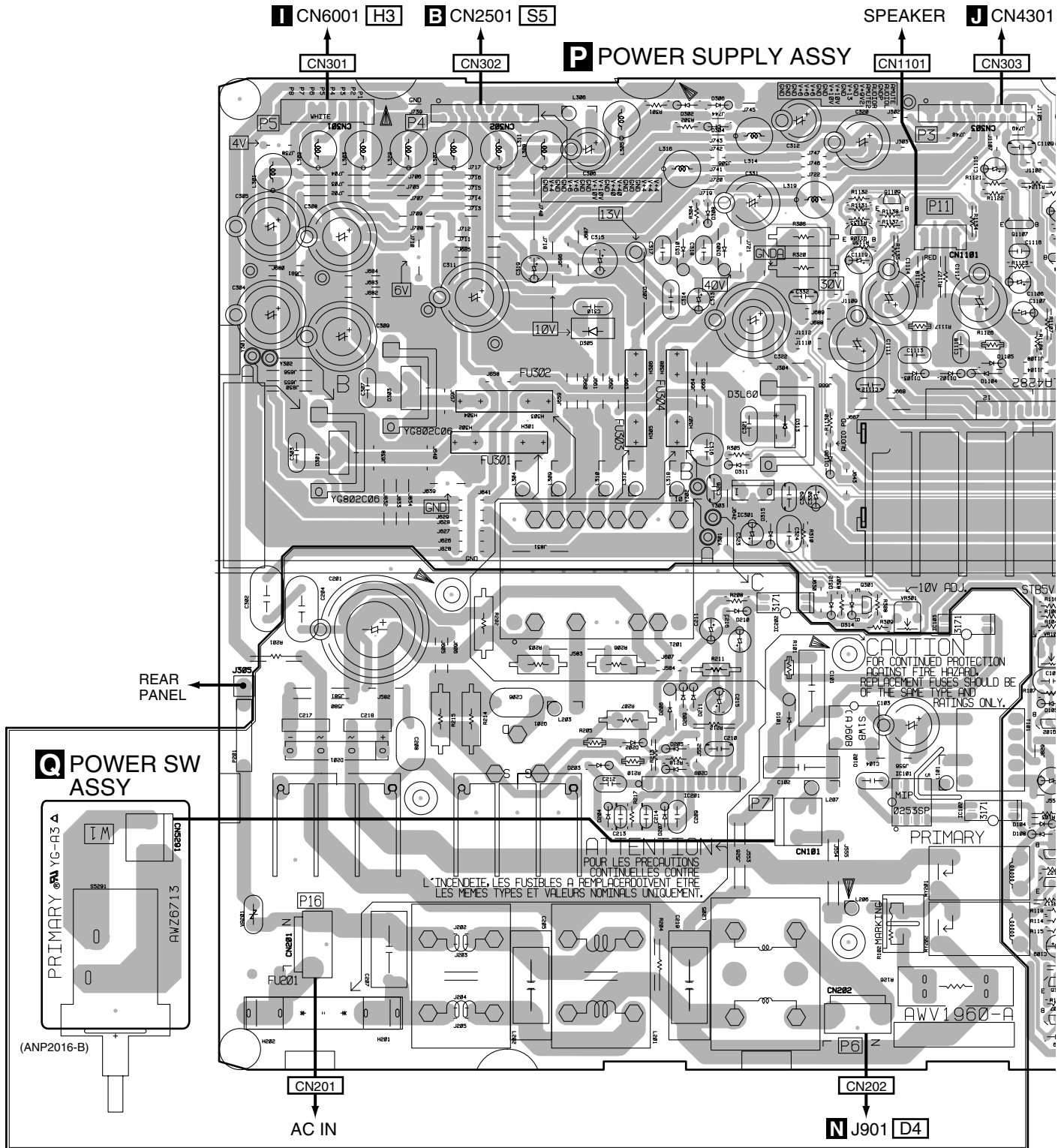


(ANP2020-A)

## 4.12 POWER SUPPLY and POWER SW ASSYS

**SIDE A**

**P-a**



Charged section  
mark shows a high voltage generation point.

**P Q**

PRO-730HD



A

B

C

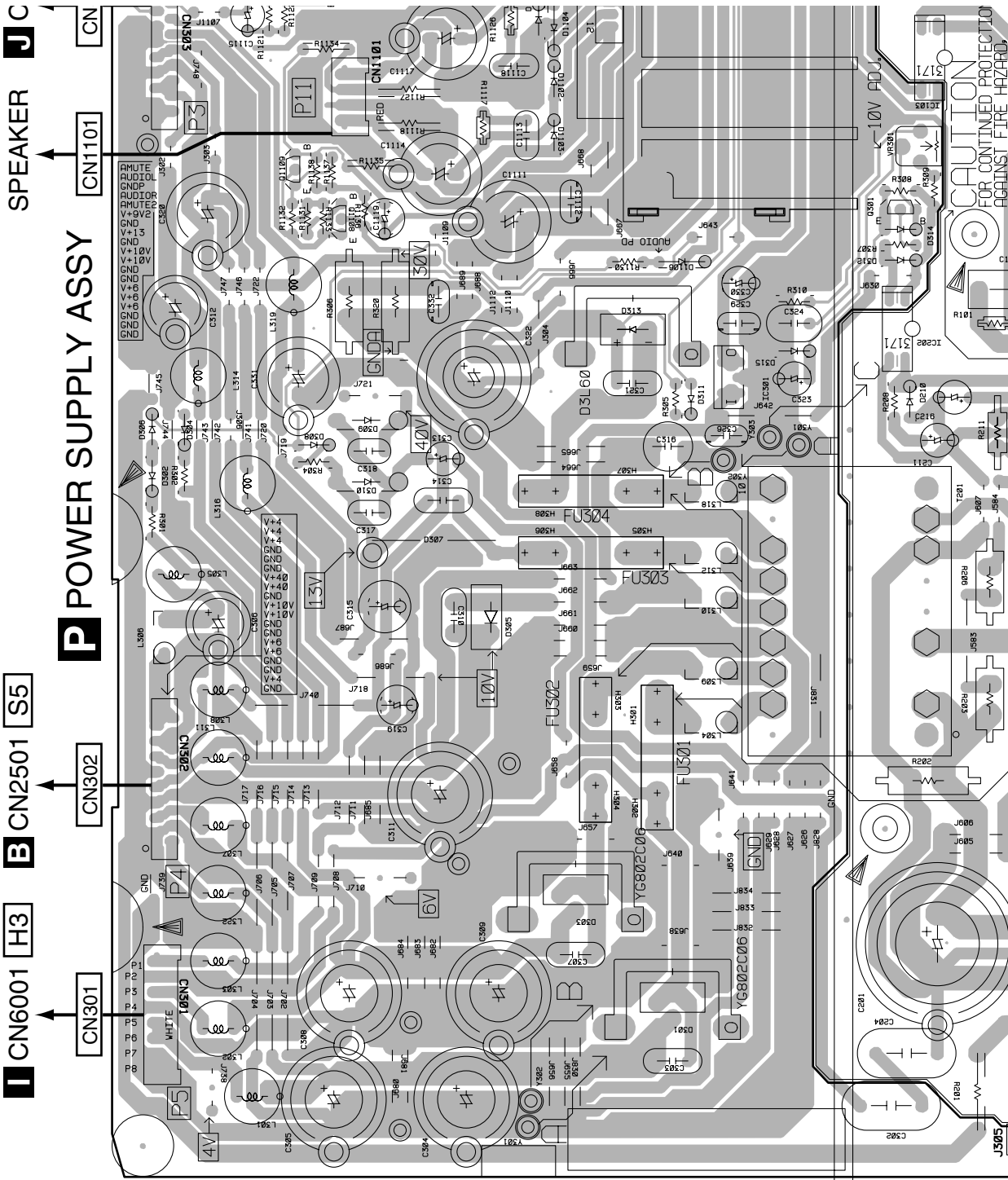
D

E

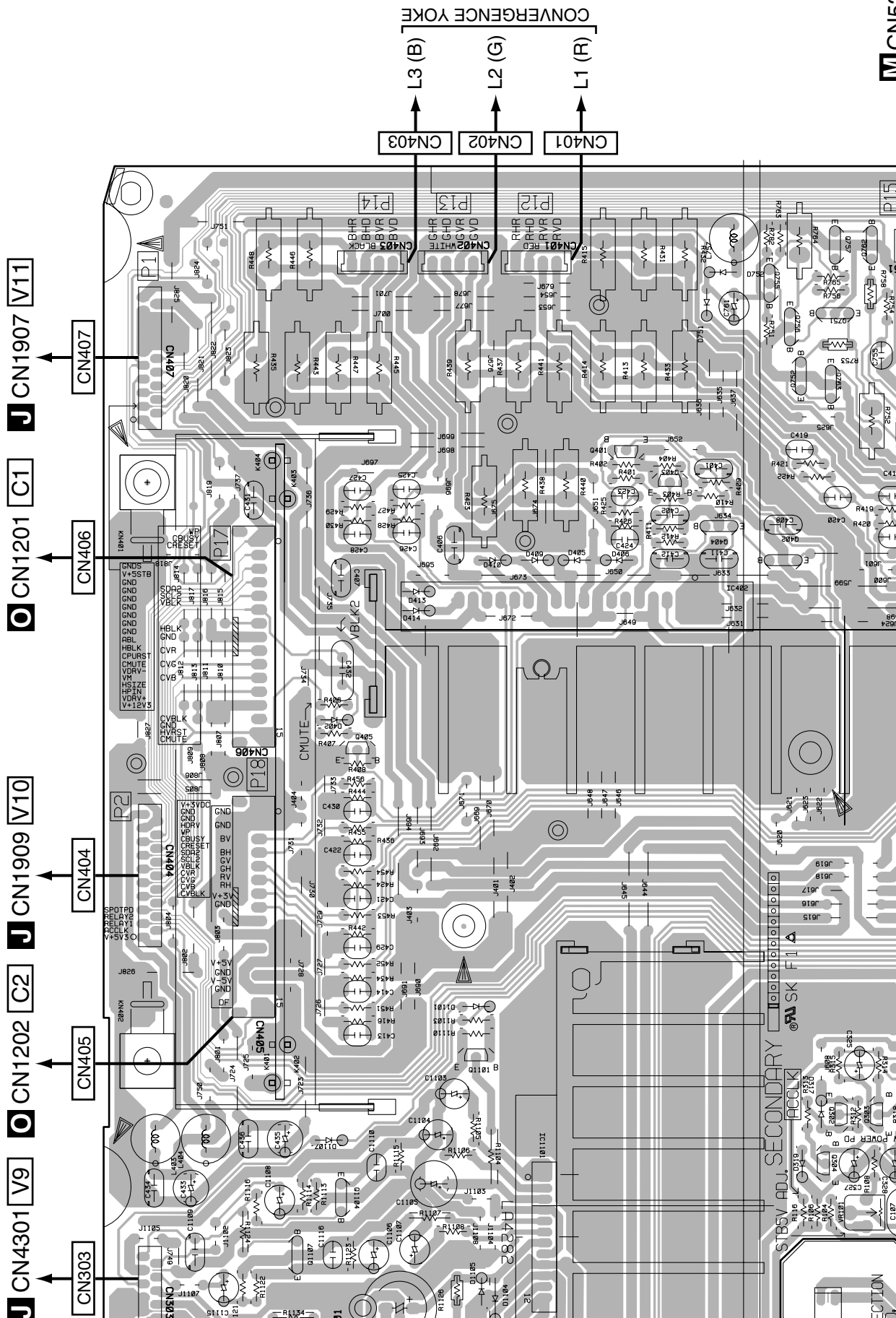
F

P-a P-b

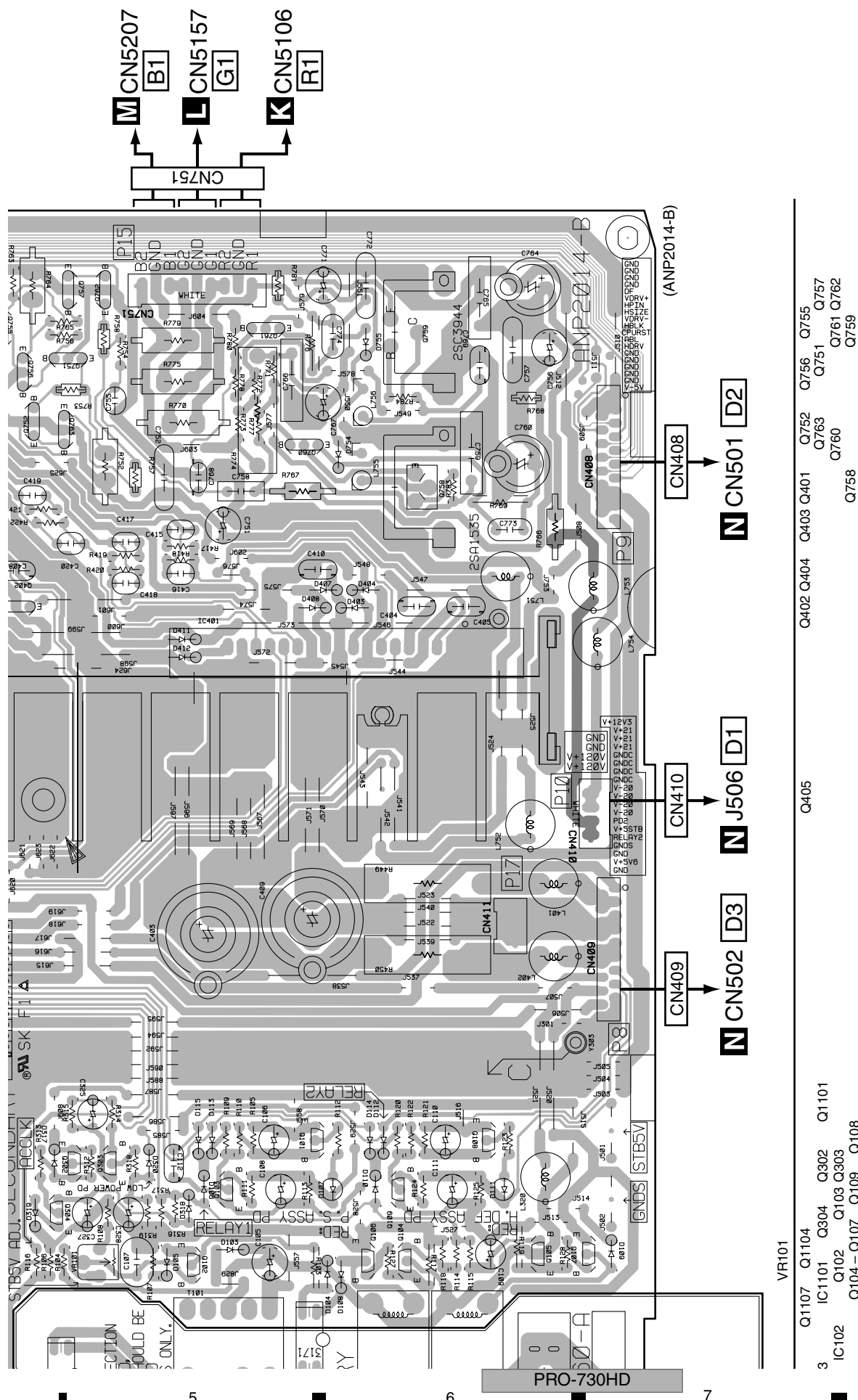
SIDE A











## 5. PCB PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560  $\rightarrow$  56  $\times 10^1$   $\rightarrow$  561 ..... RD1/4PU  $\boxed{5}\boxed{6}\boxed{1}$  J  
 47k  $\Omega$   $\rightarrow$  47  $\times 10^3$   $\rightarrow$  473 ..... RD1/4PU  $\boxed{4}\boxed{7}\boxed{3}$  J  
 0.5  $\Omega$   $\rightarrow$  R50 ..... RN2H  $\boxed{R}\boxed{5}\boxed{0}$  K  
 1  $\Omega$   $\rightarrow$  1R0 ..... RS1P  $\boxed{1}\boxed{R}\boxed{0}$  K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k  $\Omega$   $\rightarrow$  562  $\times 10^1$   $\rightarrow$  5621 ..... RN1/4PC  $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$  F

- Parts marked by  $\star$  are important parts which relate in X-rays radiation.

If any of these parts need to be replaced, always replace with specified parts.

- Parts marked by X are important parts which relate in X-rays radiation. If a failure occurs in any of these parts, replace the printed circuit board assembly where the relevant part has already been adjusted as a working component. Do not replace the actual part itself. If any part marked by X is replaced, there is danger of being exposed to X-rays.

### Mark No. Description Part No.

#### LIST OF ASSEMBLIES

NSP 1..CRT DRIVE ASSY AWW1962  
 2..R CRT DRIVE ASSY AWZ6709  
 2..G CRT DRIVE ASSY AWZ6710  
 2..B CRT DRIVE ASSY AWZ6711  
 2..TUNER ASSY AWZ6712  
 2..POWER SW ASSY AWZ6713  
 2..D-SUB ASSY AWZ6714  
 2..FRONT INPUT ASSY AWZ6715

NSP 1..SIGNAL ASSY AWW1964  
 2..SIGNAL ASSY AWZ6716  
 2..REMOTE SENSOR ASSY AWZ6717  
 2..FRONT CONTROL ASSY AWZ6718  
 2..LED RLS ASSY AWZ6719  
 2..BNC ASSY AWZ6720

1..VIDEO UCOM SERVICE ASSY AWW1992  
 1..DIGITAL CONV. ASSY AWW1966  
 1..POWER SUPPLY ASSY AWW1960  
 $\star$  1..DEFLECTION SERVICE ASSY AWW1967  
 1..DVI SERVICE ASSY AWW1983

### Mark No. Description Part No.

#### A TUNER ASSY

##### • TUNER 1 BLOCK SEMICONDUCTORS

IC5301 PQ05RD1B  
 IC5302 PQ09RD1B  
 Q5301,Q5302,Q5309 2SA933S  
 Q5303,Q5305,Q5311 2SC1740S  
 D5301 1SS133  
 D5302 MTZJ33B

##### COILS AND FILTERS

L5302,L5303 ATX1008

##### CAPACITORS

C5319 CCCCH470J50  
 C5304,C5306,C5308,C5312 CEAT100M50  
 C5315 CEAT471M10

Mark No. Description Part No.  
 C5311 CEAT471M6R3  
 C5320,C5321 CKCYB102K50

C5303,C5310,C5313,C5314,C5318 CKCYF103Z50  
 C5322,C5327 CKCYF103Z50

##### RESISTORS

R5318 RD1/2MMF271J  
 R5322 RD1/2MMF332J  
 Other Resistors RD1/4PU###J

##### OTHERS

J5301 4P HOUSING WIRE ADX2797  
 TV FRONT END SYSTEM UNIT AXF1108

##### • TUNER 2 BLOCK SEMICONDUCTORS

Q5404 2SA933S  
 Q5405 2SC1740S

##### COILS AND FILTERS

L5401,L5402 ATX1008

##### CAPACITORS

C5411 CCCCH470J50  
 C5402,C5406 CEAT100M50  
 C5409 CEAT471M10  
 C5405 CEAT471M6R3  
 C5412,C5413 CKCYB102K50

C5404,C5407,C5408,C5410 CKCYF103Z50

##### RESISTORS

Other Resistors RD1/4PU###J

##### OTHERS

CN5302 PLUG 44-P AKM1155  
 KN5401 GROUND PLATE ANK-142  
 TV FRONT END SYSTEM UNIT AXF1103

**Mark No. Description Part No.****B SIGNAL ASSY****• AV I/O BLOCK****SEMICONDUCTORS**

IC2201	CXA2069Q
IC2202, IC2203	MC14066BF
Q2202, Q2203, Q2205, Q2212, Q2213	2SA1162
Q2229	2SA1162
Q2204, Q2206-Q2210, Q2214-Q2217	2SC2712
Q2219-Q2228, Q2230	2SC2712
Q2201	HN1A01FU
Q2211, Q2218	HN1B04FU
D2201, D2203-D2207, D2210-D2214	1SS226
D2217-D2226	1SS226
D2202, D2208, D2215, D2216	1SS355

**CAPACITORS**

C2214, C2234, C2247, C2251	CEAT100M50
C2231	CEAT101M16
C2201	CEAT102M6R3
C2203, C2209-C2211, C2225, C2226	CEAT1R0M50
C2239, C2244, C2245, C2255, C2256	CEAT1R0M50
C2266, C2269	CEAT1R0M50
C2206, C2212, C2213, C2221, C2224	CEAT220M50
C2229, C2233, C2243, C2246, C2250	CEAT220M50
C2257, C2260, C2264, C2265	CEAT220M50
C2204, C2219, C2223	CEAT470M16
C2228	CEAT471M16
C2215, C2235, C2253, C2258	CEAT4R7M50
C2238, C2242, C2267, C2268	CKSRYB105K10
C2220, C2230, C2232, C2240, C2249	CKSRYB103K50
C2261	CKSRYB103K50
C2222, C2241, C2262, C2263	CKSRYB104K16
C2202, C2217, C2227, C2237, C2254	CKSRYF104Z16
C2259	CKSRYF104Z16

**RESISTORS**

R2255, R2256, R2317, R2318	DCN1092
R2207, R2208	RS1/10S151J
R2209, R2210, R2218, R2219	RS1/10S361J
R2344-R2346, R2355	RS1/10S361J
R2248, R2249, R2263, R2315, R2316	RS1/16S75R0F
R2321, R2363-R2365	RS1/16S75R0F
Other Resistors	RS1/16S###J

**OTHERS**

CN2203 PIN JACK(9P)	AKB1292
CN2201 PIN JACK(9P)	AKB1293
CN2202 4P MINI DIN SOCKET	AKP7011
CN2206, CN2208 PLUG 19-P	19P-250K-1.25FJNA
CN2207 SOCKET 44-P	AKP1186
CN2204 PLUG 12-P	KM250MA12B
CN2205 PLUG 4-P	KM250MA4R

**• COMPONENT SW BLOCK****SEMICONDUCTORS**

IC3901, IC3906	CXA2171Q
IC3907	M52055FP
Q3903, Q3905, Q3907, Q3912	2SA1162
Q3917-Q3919, Q3927, Q3928, Q3930	2SA1162
Q3932, Q3938	2SA1162
Q3901, Q3902, Q3909-Q3911, Q3913	2SC2712
Q3925, Q3926	2SC2712

**Mark No. Description Part No.**

Q3914	HN1B04FU
D3901-D3927	1SS226

**COILS AND FILTERS**

L3901	LCTA5R6J2520
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**CAPACITORS**

C3934, C3937, C3992, C3995	CCSRCH100D50
C3939	CEAT101M10
C3940, C3954, C4007	CEAT101M16
C3906, C3907, C3917, C3919, C3921	CEAT220M50
C3971, C3973, C4001-C4005, C4008	CEAT470M16
C3958, C3972	CEAT4R7M50
C3930, C3931	CEANP101M10
C3901, C3902, C3910, C3911, C3916	CKSRYB103K50
C3918, C3920, C3929, C3938, C3941	CKSRYB103K50
C3950, C3953, C3963, C3986, C3996	CKSRYB103K50
C4006	CKSRYB103K50
C3926, C3984	CKSRYB104K16
C3909, C3928, C3952, C3985	CKSRYB105K6R3
C3903-C3905, C3908, C3912	CKSRYB474K10
C3922-C3925, C3927, C3932, C3933	CKSRYB474K10
C3935, C3936, C3943-C3948, C3951	CKSRYB474K10
C3964, C3975-C3978, C3983	CKSRYB474K10
C3990, C3991, C3993, C3994	CKSRYB474K10
C3998-C4000, C4009	CKSRYB474K10

**RESISTORS**

R3955, R4063	RS1/16S1002F
R3910, R3911, R3920, R3925, R3929	RS1/16S75R0F
R3943-R3945, R3953, R3970, R4035	RS1/16S75R0F
R4049, R4061, R4080, R4119-R4121	RS1/16S75R0F
Other Resistors	RS1/16S###J

**OTHERS**

CN3902 PIN JACK(6P)	AKB1294
X3901, X3902 CERAMIC OSCILLATOR	ASS1165
CN3905 PLUG 19-P	19P-250K-1.25FJNA
CN3904 PLUG 10-P	KM250MA10R
CN3903 PLUG 11-P	KM250MA11
CN3901 PLUG 8-P	KM250MA8B

**• 3D Y/C SEP BLOCK****SEMICONDUCTORS**

IC2504	PQ025EZ01ZP
IC2505	PQ033EZ01ZP
IC2502	PQ05DZ11
IC2501	PQ09DZ11
IC2503	UPD64083GF-3BA
Q2504, Q2506, Q2509	2SA1162
Q2501, Q2505, Q2507, Q2510	2SC2712
Q2512, Q2513, Q2515, Q2517	2SC2712
Q2502	HN1B04FU
Q2503, Q2508	HN1C01FU
D2501-D2504	1SS355

**COILS AND FILTERS**

F2501-F2504	ATF1194
L2503, L2505, L2507, L2508	ATH1108
L2510, L2515	LCTA100J2520
L2509, L2511	LCTA220J2520
L2501, L2512, L2514	LCTA5R6J2520
L2502, L2506	LFEA220J

Mark No.	Description	Part No.
<b><u>CAPACITORS</u></b>		
A	C2572	CCSRCH121J50
	C2527	CCSRCH150J50
	C2528	CCSRCH180J50
	C2533,C2534	CCSRCH270J50
	C2573	CCSRCH391J50
B	C2550,C2558,C2581	CCSRCH470J50
	C2522	CCSRCH561J50
	C2549,C2571	CCSRCH680J50
	C2540	CCSRCH7R0D50
	C2551,C2559	CCSRCH820J50
C	C2523	CCSRCH821J50
	C2526,C2557,C2574,C2575,C2579	CEAT101M10
	C2537,C2548	CEAT101M6R3
	C2505,C2507,C2508,C2583	CEAT102M10
	C2511,C2542,C2556,C2561	CEAT102M6R3
D	C2565,C2566,C2570	CEAT102M6R3
	C2501,C2502,C2524	CEAT471M16
	C2516	CKSRYB102K50
	C2503,C2504,C2506,C2509,C2510	CKSRYB103K50
	C2512,C2513,C2517-C2520,C2525	CKSRYB103K50
E	C2531,C2532,C2539,C2541,C2545	CKSRYB103K50
	C2547,C2553,C2554,C2560	CKSRYB103K50
	C2562-C2564,C2567-C2569,C2582	CKSRYB103K50
	C2552	CKSRYB104K16
	C2515,C2536	CKSRYB105K6R3
F	C2521	CKSRYB473K50
	C2514,C2529,C2530,C2535,C2538	CKSRYF104Z16
	C2543,C2544,C2546	CKSRYF104Z16

### **RESISTORS**

R2564	RS1/16S1001F
R2553	RS1/16S1201F
R2537	RS1/16S1501F
R2505,R2529	RS1/16S2001F
R2576	RS1/16S2701F

R2518	RS1/16S4300F
R2551	RS1/16S6200F
R2548,R2559,R2563,R2575	RS1/16S6800F
R2577	RS1/16S9100F
Other Resistors	RS1/16S###J

### **OTHERS**

X2501 CRYSTAL RESONATOR (20MHz)	ASS1143
CN2501 SOCKET19-P	19RK-1.25FJN

### **• 2 LINE Y/C SEP BLOCK**

### **SEMICONDUCTORS**

IC2701	TC90A45F
Q2702,Q2705	2SA1162
Q2701,Q2703,Q2704,Q2714	2SC2712

### **COILS AND FILTERS**

L2701	LFA120J
L2703	LFEA101J
L2704,L2706	LFEA220J

### **CAPACITORS**

C2746	CCSRCH100D50
C2709,C2733	CCSRCH181J50
C2744	CCSRCH220J50
C2701,C2708	CCSRCH330J50

Mark No.	Description	Part No.
C2745		CCSRCH390J50
C2716,C2732		CEAT101M10
C2713		CEAT1R0M50
C2714,C2715,C2720-C2725,C2731		CKSRYB103K50

### **RESISTORS**

R2760	RS1/16S1201F
R2758	RS1/16S2701F
R2712	RS1/16S3900F
R2704	RS1/16S4700F
R2796	RS1/16S4701F

R2798	RS1/16S5100F
R2732	RS1/16S8200F
R2795	RS1/16S9100F
Other Resistors	RS1/16S###J

### **OTHERS**

CN2601,CN2701 PLUG 19-P	19P-250K-1.25FJNA
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### **• SR BLOCK**

### **SEMICONDUCTORS**

IC1801	SP3232ECY
Q1802	HN1B04FU
Q1801	HN1C01FU
D1810,D1811,D1813	1SS355
D1801-D1804	UDZ15B

### **CAPACITORS**

C1805,C1812,C1813	CEAT101M10
C1806,C1807,C1814	CKSRYB103K50
C1810	CKSRYB472K50
C1801-C1804,C1811	CKSRYF104Z16

### **RESISTORS**

All Resistors	RS1/16S###J
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### **OTHERS**

CN1801 9P D-SUB SOCKET	AKP1213
JA1801,JA1802 JACK/12V	PKN1004
CN1802 PLUG 3-P	KM250MA3

## **C BNC ASSY**

### **OTHERS**

J5041 8P HOUSING WIRE	ADX2790
CN5040 BNC SOCKET	AKX1046

## **D FRONT CONTROL ASSY**

### **SWITCHES AND RELAYS**

S5001-S5009	ASG7013
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### **RESISTORS**

All Resistors	RS1/16S###J
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### **OTHERS**

J5001 6P HOUSING WIRE	ADX2792
CN5001 PLUG 6-P	KM250MA6

**Mark No. Description Part No.****E LED RLS ASSY  
SEMICONDUCTORS**

Q5002	2SA1162
Q5001,Q5003	2SC2712
D5001,D5005	1SS355
D5003	SLR-56MG
D5002	SLR-56VR

PC5001	P1241-09
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**CAPACITORS**

C5002	CEJA101M10
C5003	CKSRYB103K50
C5004	CEJA330M35

**RESISTORS**

VR5001 (47k)	VCP1160
Other Resistors	RS1/16S###J

**OTHERS**

DPO HOLDER	AMR2294
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**F REMOTE SENSOR ASSY****CAPACITORS**

C5031	CCSRCH121J50
C5030	CEAT221M6R3

**RESISTORS**

All Resistors	RS1/16S###J
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**OTHERS**

CN5030 PLUG 3-P	KM250MA3
X5030 REMOTE SENSOR UNIT	GPIU28X

**Mark No. Description Part No.****G FRONT INPUT ASSY  
SEMICONDUCTORS**

Q5251,Q5252	2SC1740S
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**CAPACITORS**

C5252,C5253	CEJA1R0M50
C5254	CEJA470M16
C5251,C5255	CKCYF103Z50

**RESISTORS**

R5251,R5253,R5254	RN1/4PC75R0F
Other Resistors	RD1/4PU###J

**OTHERS**

CN5251 PINJACK(3P) WITH SIN	AKB1261
CN5252 PLUG 12-P	KM250MA12

**H D-SUB ASSY****RESISTORS**

R5277-R5279	RN1/4PC75R0F
Other Resistors	RD1/4PU###J

**OTHERS**

J5271 11P HOUSING WIRE	ADX2791
CN5272 15P D-SUB SOCKET	AKP1214

**Mark No. Description Part No.****I DVI SERVICE ASSY  
SEMICONDUCTORS**

IC6003,IC6014	24LC02B(I)SN
IC6016	CXA1875AM
IC6005,IC6006	PQ033EZ01ZP
IC6010	PQ05DZ51
IC6009	PQ12DZ11

IC6001,IC6012	PST9228N
IC6007,IC6018	SII907BCQ52
IC6011	SM5301AS
IC6004	TC74HC08AF
IC6008	TC74HC126AF

IC6019,IC6020	TC74HC4053AF
IC6021	TC74HC4066AF
IC6015	TC74HCT04AF
Q6016-Q6018,Q6028,Q6029	2SA1162
Q6031-Q6033	2SA1162

Q6003-Q6005,Q6010,Q6023-Q6026	2SC2712
Q6034,Q6035	2SC2712
Q6001,Q6002,Q6021,Q6022	HN1C01FU
D6008,D6032	1SS184
D6009,D6010,D6022,D6025	1SS226

D6033,D6034,D6049,D6050	1SS226
D6002-D6004,D6006,D6007	1SS355
D6011,D6012,D6014,D6016,D6017	1SS355
D6023,D6028-D6031,D6035,D6052	1SS355
D6069	1SS355

D6001,D6005,D6013,D6027	RD6.8MB
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**COILS AND FILTERS**

F6001,F6002	ATF1194
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**CAPACITORS**

C6013,C6015,C6018,C6032,C6046	CCSRCH101J50
C6049,C6050,C6068,C6072	CCSRCH101J50
C6076,C6077,C6079,C6080,C6086	CCSRCH101J50
C6088,C6090,C6139,C6141,C6144	CCSRCH101J50
C6152,C6155,C6156,C6166,C6169	CCSRCH101J50

C6173,C6174,C6178,C6181,C6183	CCSRCH101J50
C6185	CCSRCH101J50
C6005,C6134	CCSRCH471J50
C6001,C6020,C6121,C6146	CEAT100M50
C6119,C6208	CEAT101M16

C6101,C6111,C6197,C6202	CEAT1R0M50
C6040,C6044,C6058,C6062	CEAT221M16
C6074,C6188	CEAT221M6R3
C6007,C6081,C6113,C6148,C6195	CEAT470M16
C6200,C6204	CEAT470M16

C6027,C6063,C6091-C6093	CKSRYB105K6R3
C6115-C6117	CKSRYB105K6R3
C6003,C6123	CKSRYB472K50
C6019,C6095,C6107,C6127,C6129	CKSRYF103Z50
C6145	CKSRYF103Z50

C6002,C6004,C6008-C6012,C6014	CKSRYF104Z16
C6016,C6017,C6021-C6026,C6028	CKSRYF104Z16
C6031,C6035-C6039,C6041-C6043	CKSRYF104Z16
C6045,C6047,C6048,C6055-C6057	CKSRYF104Z16
C6059-C6061,C6066,C6067	CKSRYF104Z16

C6070,C6071,C6073,C6075,C6078	CKSRYF104Z16
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Mark No.	Description	Part No.
C6082,C6084,C6085,C6087,C6089		CKSRYF104Z16
C6096-C6100,C6108,C6112,C6114		CKSRYF104Z16
C6122,C6124,C6131-C6133		CKSRYF104Z16
C6136-C6138,C6140,C6142,C6143		CKSRYF104Z16
C6147,C6151,C6157-C6160		CKSRYF104Z16
C6163-C6165,C6170-C6172,C6177		CKSRYF104Z16
C6179,C6182,C6184,C6186,C6187		CKSRYF104Z16
C6189-C6194,C6196,C6201,C6203		CKSRYF104Z16
C6206,C6207,C6209-C6212		CKSRYF104Z16

### RESISTORS

R6036	RD1/4MUF100J
R6108,R6307	RS1/16S1002F
R6060,R6257	RS1/16S1500F
R6172	RS1/16S2701F
R6138	RS1/16S3001F
R6354	RS1/16S3902F
R6109,R6274	RS1/16S4300F
R6343	RS1/16S4702F
R6059,R6076,R6077,R6122	RS1/16S75R0F
R6126-R6128,R6145,R6160-R6162	RS1/16S75R0F
R6178,R6246,R6256,R6260	RS1/16S75R0F
R6132	RS1/16S8200F
VR6001 (2.2k)	ACP1090
Other Resistors	RS1/16S###J

### OTHERS

J6001 4P HOUSING WIRE	ADX2798
CN6002,CN6006 DVI SOCKET (24P)	AKP1216
KN6001-KN6003 GROUND PLATE	ANK-142
CN6005 L-PLUG(10P)	KM250MA10L
CN6001 L-PLUG(8P)	KM250MA8L
JA6001,JA6002 2P JACK	PKB1035

## J VIDEO UCOM SERVICE ASSY

### • UCOM BLOCK SEMICONDUCTORS

IC1903	24LC32A(I)P
IC1905	M62399FP
IC1906	PD5815D8
IC1902	PQ033EZ01ZP
IC1908	PST9228N
IC1904,IC1907	TC74VHCT541AFT
Q1905-Q1907,Q1912,Q1916	2SA1162
Q1903,Q1908-Q1911,Q1913,Q1914	2SC2712
Q1917-Q1919	2SC2712
Q1901	2SJ461
Q1902,Q1904	HN1B04FU
D1902-D1904,D1907,D1908	1SS226
D1910,D1911,D1913,D1921,D1924	1SS226
D1928-D1936	1SS226
D1901,D1912,D1914,D1916,D1917	1SS355
D1919,D1920,D1923,D1926	1SS355
D1909	RD6.8MB
D1918	UDZ3.6B
D1915	UDZS5.6B

### CAPACITORS

C1921,C1931	CCSRCH221J50
C1935	CCSRCK2R0C50
C1952	CEANP101M16

Mark No.	Description	Part No.
C1912,C1913,C1915		CEAT100M50
C1904,C1938		CEAT102M6R3
C1943,C1945		CEAT4R7M50
C1920,C1930,C1949		CKSRYB102K50
C1908,C1911,C1914,C1916		CKSRYB103K50
C1918,C1919,C1926,C1939,C1948		CKSRYB103K50
C1922,C1932		CKSRYB105K6R3
C1936		CKSRYB153K50
C1946		CKSRYB472K50
C1927,C1929,C1950,C1951		CKSRYB561K50
C1902,C1903,C1905,C1907,C1909		CKSRYF104Z16
C1923-C1925,C1928,C1933,C1934		CKSRYF104Z16
C1937,C1940,C1942,C1947		CKSRYF104Z16

### RESISTORS

R1902,R1903,R1907,R1908,R1937	DCN1092
R1944,R1947,R1950-R1952	DCN1092
R1963-R1965,R1971,R1972,R1978	DCN1092
R1989,R2000,R2004-R2007,R2027	DCN1092
R1916	RS1/16S1001F
R1931	RS1/16S1002F
R1932	RS1/16S3002F
R1980,R1983,R1986	RS1/16S3901F
R1979,R1982,R1985	RS1/16S6800F
Other Resistors	RS1/16S###J

### OTHERS

X1901 CERAMIC RESONATOR (16MHz)	ASS1159
CN1903 PLUG 8-P	CKS3130
CN1901 PLUG 10-P	KM250MA10
CN1908 PLUG 11-P	KM250MA11
CN1905 PLUG 3-P	KM250MA3
CN1904 PLUG 6-P	KM250MA6
CN1902 PLUG 9-P	KM250MA9
CN1906,CN1907,CN1909	19RK-1.25FJN
SOCKET19-P	

### • AFC BLOCK SEMICONDUCTORS

IC2804,IC2805	M52055FP
IC2802	PQ018EZ01ZP
IC2801,IC2809	PQ033EZ01ZP
IC2808	PQ09DZ11
IC2803,IC2806	TA1340F
IC2807	TC74ACT04FT
Q2803,Q2807,Q2809-Q2811,Q2816	2SA1162
Q2821,Q2825,Q2829-Q2831,Q2834	2SA1162
Q2801,Q2804,Q2805,Q2808,Q2814	2SC2712
Q2817,Q2822,Q2824,Q2826,Q2828	2SC2712
Q2832,Q2835,Q2839,Q2843,Q2844	2SC2712
Q2818-Q2820,Q2836-Q2838	2SC4213
Q2840-Q2842	HN1B04FU
Q2806,Q2812,Q2815,Q2823,Q2827	HN1C01FU
Q2833	HN1C01FU
D2801-D2806	1SS355

### COILS AND FILTERS

L2803,L2805,L2808,L2811,L2812	LFA5R6J
L2815,L2818	LFA5R6J
L2801	LFEA220J

Mark No.	Description	Part No.
	L2806,L2809,L2813,L2816,L2819	LFEA4R7J
<b>CAPACITORS</b>		
	C2820,C2870	CCSRCH100D50
	C2840,C2895	CCSRCH120J50
	C2831	CCSRCH220J50
	C2946,C2947	CCSRCH221J50
	C2844,C2859,C2868,C2869,C2873	CCSRCH330J50
	C2897,C2911,C2930-C2937	CCSRCH330J50
	C2845,C2860,C2874,C2898,C2912	CCSRCH331J50
	C2832,C2833,C2846,C2861,C2875	CCSRCH470J50
	C2899,C2913	CCSRCH470J50
	C2825,C2829,C2881,C2887	CEAT101M10
	C2801,C2805,C2806,C2810,C2958	CEAT102M6R3
	C2827,C2893	CEAT1R0M50
	C2854-C2856,C2908-C2910	CEAT220M50
	C2950,C2954	CEAT221M16
	C2811,C2812,C2823,C2824,C2834	CEAT470M10
	C2837,C2851,C2862,C2866,C2867	CEAT470M10
	C2871,C2876,C2880,C2889,C2890	CEAT470M10
	C2914	CEAT470M10
	C2802-C2804,C2807-C2809,C2817	CKSRYB103K50
	C2826,C2828,C2830,C2838,C2843	CKSRYB103K50
	C2850,C2858,C2865,C2872,C2879	CKSRYB103K50
	C2882,C2888,C2892,C2894,C2896	CKSRYB103K50
	C2902,C2906,C2907,C2918,C2921	CKSRYB103K50
	C2924,C2949,C2951-C2953	CKSRYB103K50
	C2955-C2957	CKSRYB103K50
	C2813-C2816,C2852,C2857	CKSRYB104K16
	C2883-C2886,C2903	CKSRYB104K16
	C2841,C2904	CKSRYB222K50
	C2842,C2905	CKSRYB224K10

### RESISTORS

R2838,R2852,R2898,R2917,R2946	RS1/16S1201F
R2990,R2993,R2996,R2999	RS1/16S1201F
R2983,R2984,R2986,R2987,R2989	RS1/16S1501F
R2992,R2995,R2998	RS1/16S1501F
R2815,R2899	RS1/16S1602F
R2834,R2869,R2902,R2916,R2944	RS1/16S2200F
R2822,R2903	RS1/16S3000F
R2835,R2870,R2923,R2949	RS1/16S3300F
R2874,R2952	RS1/16S3301F
R2812,R2837,R2872,R2905,R2925	RS1/16S5600F
R2945	RS1/16S5600F
R2825,R2907	RS1/16S5601F
R2811	RS1/16S6800F
R2853,R2947	RS1/16S8201F
R2801	RS2MMF2R2J

Other Resistors RS1/16S###J

### OTHERS

X2801,X2803 CERAMIC RESONATOR ASS1019 (3.5MHz)	
X2802,X2804 CRYSTAL RESONATOR ASS1091	
CN2801,CN2803 SOCKET19-P	19RK-1.25FJN
CN2802,CN2804 22P CONNECTOR	AKP1228

### • SHARPNESS BLOCK SEMICONDUCTORS

IC4301	AN5395FBP
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Mark No.	Description	Part No.
	IC4305,IC4306	M52055FP
	IC4302,IC4303,IC4307	PQ05DZ11
	IC4304	PQ09DZ11
	Q4306,Q4307,Q4330	2SA1162
	Q4310,Q4311,Q4331,Q4332	2SC2712
	Q4301,Q4302,Q4309	HN1B04FU
	Q4303	HN1C01FU
	D4301-D4304	1SS355

### COILS AND FILTERS

F4302	ATF1194
L4304-L4306	ATH1108
L4307	LCTA4R7J2520
L4310,L4312	LFA1R5J
L4302,L4311	LFA5R6J
L4301	LFA820J

### CAPACITORS

C4365-C4367	CCSRCH101J50
C4369	CCSRCH270J50
C4310	CCSRCH470J50
C4302	CCSRCH560J50
C4337,C4342,C4343	CEANP470M25
C4315	CEAT100M50
C4349,C4350	CEAT101M16
C4323,C4324,C4335,C4348	CEAT102M10
C4326,C4329,C4376,C4380,C4382	CEAT102M6R3
C4336,C4338,C4341,C4344,C4345	CEAT470M16
C4347,C4351,C4353,C4354	CEAT470M16
C4360,C4361	CEAT470M16
C4333,C4362	CEAT471M16
C4303-C4309,C4311,C4312,C4314	CKSRYB103K50
C4316,C4317,C4319-C4322,C4325	CKSRYB103K50
C4327,C4328,C4330,C4334	CKSRYB103K50
C4339,C4340,C4346,C4352,C4359	CKSRYB103K50
C4363,C4370,C4371,C4373	CKSRYB103K50
C4377-C4379	CKSRYB103K50
C4318	CKSRYB105K10
C4355-C4358	CKSRYB224K10

### RESISTORS

R4306,R4307	RS1/16S1001F
R4322	RS1/16S1501F
R4301,R4303	RS1/16S2001F
R4514	RS1/16S3901F
Other Resistors	RS1/16S###J

### OTHERS

CN4301 SOCKET19-P	19RK-1.25FJN
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### • VIDEO BLOCK SEMICONDUCTORS

IC4609	AD8057ART
IC4604	BA7655AF
IC4606	CXA2153S
IC4608	CXA2180Q
IC4601	M52055FP
IC4611	NJM319M
IC4605	PQ12DZ11
IC4610	TC74HC126AF
IC4602	TC74HC4053AF
IC4612-IC4614	TC7SB66FU

Mark No.	Description	Part No.	Mark No.	Description	Part No.
A	IC4615	TC7SET08FU	<b>RESISTORS</b>		
	IC4603	TC7W53FU	R4667,R4709,R4724	RD1/4MUF390J	
	Q4601,Q4606-Q4608,Q4613,Q4619	2SA1162	R4721,R4737,R4900	RS1/16S1000F	
■	Q4632,Q4633,Q4648,Q4654	2SA1162	R4725	RS1/16S1001F	
	Q4645	2SA1669	R4651,R4699,R4713,R4730,R4809	RS1/16S1002F	
			R4661,R4700,R4755,R4778,R4785	RS1/16S1201F	
■	Q4609,Q4610,Q4614,Q4616-Q4618	2SC2712	R4794	RS1/16S1201F	
	Q4625,Q4628,Q4629,Q4635-Q4638	2SC2712	R4800	RS1/16S1202F	
	Q4640,Q4642-Q4644,Q4646,Q4653	2SC2712	R4801	RS1/16S1501F	
B	Q4658-Q4663,Q4665,Q4671	2SC2712	R4626,R4796	RS1/16S1801F	
	Q4611,Q4623,Q4631	2SK209	R4776	RS1/16S2001F	
■	Q4650	HN1A01FU	R4774,R4784,R4888	RS1/16S2201F	
	Q4603,Q4605,Q4612,Q4624,Q4641	HN1B04FU	R4727,R4793	RS1/16S2202F	
	Q4666-Q4670	HN1B04FU	R4863,R4875,R4885	RS1/16S2700F	
■	Q4620,Q4630,Q4647,Q4649,Q4651	HN1C01FU	R4708,R4723,R4752,R4815	RS1/16S3301F	
	Q4664	HN1C01FU	R4612	RS1/16S3302F	
■	D4601,D4602	1SS184	R4662,R4701,R4756	RS1/16S3601F	
	D4614	1SS226	R4619	RS1/16S3900F	
	D4603,D4604,D4606,D4609,D4610	1SS355	R4637	RS1/16S3901F	
■	D4612,D4615	1SS355	R4795	RS1/16S4301F	
	D4617-D4619,D4623-D4625	1SS355	R4799	RS1/16S4302F	
<b>COILS AND FILTERS</b>			R4620,R4643,R4876	RS1/16S4701F	
C	L4603	LCTA4R7J2520	R4722,R4759,R4835	RS1/16S47R0F	
	L4601	LCTA470J2520	R4777	RS1/16S5101F	
	L4602	QTL1013	R4614,R4665,R4862,R4874,R4884	RS1/16S5600F	
■			R4805	RS1/16S5601F	
<b>CAPACITORS</b>			R4629,R4783	RS1/16S6201F	
■	C4724	CCSRCH150J50	R4773	RS1/16S6800F	
	C4734	CCSRCH221J50	R4775	RS1/16S6801F	
	C4685	CCSRCH330J50	R4789	RS1/16S7501F	
■	C4696,C4697,C4703	CCSRCH7R0D50	R4806,R4807	RS1/16S8201F	
	C4666,C4699	CEAT100M50			
D	C4618,C4640,C4650,C4658,C4668	CEAT101M10	Other Resistors	RS1/16S###J	
	C4693,C4705,C4708,C4712,C4730	CEAT101M10			
	C4735	CEAT101M10			
■	C4601,C4603,C4606,C4607,C4609	CEAT470M16	<b>OTHERS</b>		
	C4611,C4612,C4633,C4652,C4654	CEAT470M16	X4601 CERALOCK	ASS1166	
			CN4602 SOCKET 19-P	19RK-1.25FJN	
■	C4664,C4716,C4721	CEAT470M16	CN4601 PLUG 15-P	KM250MA15	
	C4614,C4616	CEAT471M16			
	C4621,C4649	CEAT4R7M50			
■	C4602,C4605,C4610,C4613,C4615	CKSRYB103K50	<b>• AUDIO PRE BLOCK</b>		
	C4617,C4619,C4629,C4631,C4632	CKSRYB103K50	<b>SEMICONDUCTORS</b>		
			IC5502	BH3865S	
E	C4637,C4641,C4642,C4647,C4648	CKSRYB103K50	IC5501,IC5503,IC5504	NJM4558MD	
	C4651,C4653,C4655,C4656	CKSRYB103K50	Q5501-Q5506	2SC2712	
	C4659-C4661,C4665,C4667	CKSRYB103K50			
■	C4670-C4676,C4678-C4681,C4683	CKSRYB103K50	<b>CAPACITORS</b>		
	C4686-C4692,C4694,C4695,C4702	CKSRYB103K50	C5507,C5514	CCSRCH331J50	
			C5508,C5518,C5519	CEAT100M50	
■	C4704,C4706,C4707,C4709-C4711	CKSRYB103K50	C5502,C5534	CEAT101M10	
	C4713-C4715,C4722,C4723	CKSRYB103K50	C5523	CEAT101M16	
	C4725-C4727,C4736,C4737	CKSRYB103K50	C5501,C5504-C5506	CEAT220M50	
■	C4623-C4628,C4630,C4634-C4636	CKSRYB104K16			
	C4638,C4639,C4644-C4646,C4701	CKSRYB104K16	C5509	CEAT471M16	
			C5512,C5520,C5524,C5527,C5528	CEAT4R7M50	
F	C4738,C4739	CKSRYB104K16	C5533,C5537	CFTLA274J50	
	C4643,C4662,C4684,C4733	CKSRYB105K10	C5532,C5539	CFTLA393J50	
	C4682,C4719,C4720	CKSRYB105K6R3	C5529,C5538	CFTLA473J50	
■	C4669	CKSRYB472K50			
	C4620,C4622,C4677	CKSRYB474K10	C5530,C5536	CFTLA684J50	
			C5503,C5510,C5531,C5535	CKSRYB103K50	
■	C4657	CQHA104J50	C5522	CKSRYB104K16	
			C5517,C5525	CKSRYB471K50	
			C5521	CKSRYB562K50	
■					
■			C5513,C5526	CKSRYB683K16	



Mark No.	Description	Part No.
<b>RESISTORS</b>		
R5549,R5550,R5552,R5553		RS1/10S271J
R5533,R5537,R5558,R5562		RS1/10S561J
R5525		RS1/16S1602F
R5524		RS1/16S2002F
Other Resistors		RS1/16S###J
<b>OTHERS</b>		
CN5501 SOCKET19-P		19RK-1.25FJN

## **K** R CRT DRIVE ASSY SEMICONDUCTORS

IC5101	TDA6120QN2
Q5101	2SC1740S
D5103,D5105	1SS244
D5109	MTZJ12A
D5108	MTZJ3.9B
D5107	MTZJ5.6A
D5101,D5102,D5104,D5106,D5110	S5688G

## **COILS AND FILTERS**

SG5101,SG5102	AEX1024
L5103	LTA562J

## **CAPACITORS**

C5108 (3300p)	ACG1008
C5102	CCCCH150J50
C5101	CCCCH220J50
C5110	CEAT101M25
C5109	CEAT472M16
C5107,C5114	CEHAT470M2E
C5111,C5113	CKCYE103P2H
C5104,C5106	CKCYF103Z50

## **RESISTORS**

R5115,R5118 (47, 1/2W)	ACN1129
R5116 (330, 1/2W)	ACN1158
R5117	RD1/2LMF100J
R5106	RN1/4PC5100F
R5101	RS1MMF6R8J
R5112-R5114	RS3LMF822J
VR5101	VRTHS6VS222
Other Resistors	RD1/4PU###J

## **OTHERS**

J5101 CRT GND WIRE	ADX2762
CN5104 CRT SOCKET	AKG1006
SCREW	BBZ30P080FCU
SCREW	BPZ30P100FZK
CN5105 PLUG 3-P	KM250MA3
CN5106 PLUG 3-P	KM250MA3R
CN5101 PLUG 5-P	KM250MA5R
CN5102 PLUG 6-P	KM250MA6
SCREW	PMB30P160FZK

## **L** G CRT DRIVE ASSY SEMICONDUCTORS

IC5151	TDA6120QN2
Q5151	2SC1740S
D5153,D5155	1SS244

Mark No.	Description	Part No.
D5159		MTZJ12A
D5158		MTZJ3.9B
D5157		MTZJ5.6A
D5151,D5152,D5154,D5156,D5160		S5688G

## **COILS AND FILTERS**

SG5151,SG5152	AEX1024
L5153	LTA562J

## **CAPACITORS**

C5158 (3300p)	ACG1008
C5153	CCCCH120J50
C5151,C5152	CCCCH150J50
C5160	CEAT101M25
C5159	CEAT472M16
C5157,C5164	CEHAT470M2E
C5161,C5163	CKCYE103P2H
C5154-C5156,C5165	CKCYF103Z50

## **RESISTORS**

R5164,R5168 (47, 1/2W)	ACN1129
R5165 (330, 1/2W)	ACN1158
R5167	RD1/2LMF100J
R5155	RN1/4PC3900F
R5151	RS1MMF6R8J
R5161-R5163	RS3LMF822J
VR5151	VRTHS6VS222
Other Resistors	RD1/4PU###J

## **OTHERS**

J5151 CRT GND WIRE	ADX2762
J5152 4P HOUSING WIRE	ADX2794
CN5145 CRT SOCKET	AKG1006
SCREW	BBZ30P080FCU
SCREW	BPZ30P100FZK
CN5156 PLUG 3-P	KM250MA3
CN5157 PLUG 3-P	KM250MA3B
CN5151 PLUG 5-P	KM250MA5
SCREW	PMB30P160FZK

## **M** B CRT DRIVE ASSY SEMICONDUCTORS

IC5201	TDA6120QN2
Q5201	2SC1740S
D5203,D5205	1SS244
D5209	MTZJ12A
D5208	MTZJ3.9B
D5207	MTZJ5.6A
D5201,D5202,D5204,D5206,D5210	S5688G

## **COILS AND FILTERS**

SG5201,SG5202	AEX1024
L5203	LTA562J

## **CAPACITORS**

C5208 (3300p)	ACG1008
C5202	CCCCH120J50
C5201	CCCCH150J50
C5210	CEAT101M25
C5209	CEAT472M16
C5207,C5214	CEHAT470M2E

Mark No.	Description	Part No.
C5211,C5213		CKCYE103P2H
C5204,C5206		CKCYF103Z50

## RESISTORS

R5214,R5218 (47, 1/2W)	ACN1129
R5215 (330, 1/2W)	ACN1158
R5217	RD1/2LMF100J
R5205	RN1/4PC4300F
R5201	RS1MMF6R8J
R5211-R5213	RS3LMF822J
VR5201	VRTHS6VS222
Other Resistors	RD1/4PU###J

## OTHERS

J5201 CRT GND WIRE	ADX2762
J5203 4P HOUSING WIRE	ADX2794
CN5204 CRT SOCKET	AKG1006
SCREW	BBZ30P080FCU
SCREW	BPZ30P100FZK
CN5206 PLUG 3-P	KM250MA3
CN5207 PLUG 3-P	KM250MA3B
CN5201 PLUG 5-P	KM250MA5B
SCREW	PMB30P160FZK

## DEFLECTION SERVICE ASSY

### • DEFLECTION BLOCK SEMICONDUCTORS

IC502	NJM4558DXP
IC501	NJM7812FA
IC802	LA78045
IC801	M5220P
IC803	NJM78L05A
IC804	NJM7905FA
601 PCS MODULE	MSPAD401
Q503,Q505,Q507,Q513,Q515	2SA933S
Q504,Q506,Q509	2SC1740S
Q510	2SC2705
Q512	2SC3332
Q511	2SC5716
Q508	2SD1894LB
Q602,Q604	2SA933S
Q609,Q610	2SA933S
Q601,Q607,Q608,Q613-Q616	2SC1740S
Q603	2SK2649-01R
Q703,Q705	2SA933S
Q701,Q702	2SC4686A
Q704	2SC1740S
Q501,Q502	2SA1145
Q802-Q804	2SC1740S
D509,D514	11DF2
D503,D505-D508	1SS133
D511-D513,D516-D521	1SS133
D510	ERB93-02L3
D515	MTZJ5.1A
D504	S5688G
D601,D606	11DF2
D608-D611,D613,D615,D616	1SS133
D618,D620-D623	1SS133
D604	DD52RC
D607	ERA22-02

Mark No.	Description	Part No.
D602,D603		MA723
D614,D617,D619		MTZJ12
D612		MTZJ5.6A
D605		RG4C(C)
D703-D709		1SS133
D701,D702		ERD07-15

D806,D807,D809-D811	1SS133
D808	MTZJ12
D801-D805	S5688G

## COILS AND TRANSFORMERS

L501-L503	ATH1107
L602	ATH1107
L601	ATH1108
L701,L702	ATX1021
L803-L805,L807	ATH1107
L806,L808,L809	ATH1108
T502	ATK1144
T501	ATK1145
T601	ATK1148

## CAPACITORS

C522 (100p/2kV)	ACG-032
C517 (1/100V)	ACH-372
C511,C530	CCCSL101J50
C520	CCCSL101K2H
C513	CCCSL470J50
C515,C526	CEAT101M16
C529	CEAT102M35
C504	CEAT1R0M50
C518	CEAT221M16
C502	CEAT330M35
C509	CEAT4R7M50
C516	CEHAQ1R0M2C
C510	CEHAT100M2C
C507	CEHAT101M16
C506	CEHAT101M35
C523	CFPAB332H3C
C524	CFPAB472H3C
C531	CFPMAB564J2G
C521	CFTLA105J50
C519	CFTLA683J50
C512	CKCYB561K50
C501,C503,C505,C508,C514	CKCYF103Z50
C525,C527,C528	CKCYF103Z50
C601	ACG1093
C602,C614 (560/160V)	ACH1146
C610	CCCSL470J50
C604	CEAT101M16
C607,C611,C622	CEAT1R0M50
C612,C627	CEAT221M16
C616	CEAT470M16
C624	CEHAT100M50
C623	CEHAT220M63
C606	CFPAB222H3C
C603	CKCYE103P2H
C605,C608,C609,C613,C615	CKCYF103Z50
C621,C625,C626,C628	CKCYF103Z50
C701,C702 (4700p/2kV)	ACG1028

**Mark No. Description****Part No.**

C704	CEANP100M35
C705	CEAT470M25
C703	CKCYF103Z50
C802,C805	CCCSL101J50
C806,C829	CEANP101M10
C822	CEANP101M25
C803,C826	CEAT101M10
C821,C823,C827	CEAT101M25
C834	CEAT470M16
C815	CEHAT221M50
C809,C812	CEHAT222M35
C831,C832	CEHAT472M35
C818	CFTLA683J100
C811,C814	CKCYB331K50
C804,C807,C808,C810,C813	CKCYF103Z50
C816,C817,C819,C820	CKCYF103Z50
C824,C825,C828,C830,C833	CKCYF103Z50

**RESISTORS**

R516	RD1/2PM153J
R530	RD1/2PM223J
R540	RN1/4PC1503F
R545	RN1/4PC6801F
R550	RS1MMF100J
R562	RS2MMF150J
R564	RS2MMF180J
R502,R506,R531,R543,R544	RS2MMF1R0J
R529	RS2MMF220J
R542	RS2MMF222J
R614 (27, 1/2W)	ACN1136
R656	RD1/2PM122J
⚠ R603,R607	RN1/2PC3902F
⚠ X R628	RN1/4PC1502F
⚠ X R612,R624	RN1/4PC1802F
⚠ X R633	RN1/4PC3302F
⚠ X R627	RN1/4PC3601F
⚠ X R622	RN1/4PC6802F
R601,R602,R615	RS2MMF151J
R608,R609	RS2MMFR33J
⚠ X VR601	VRTHS6VS103
⚠ X VR602	VRTHS6VS223
R701	ACN1011
R735	RD1/4LMF100J
R717-R719,R726-R728	RN1/2PC1103F
R714-R716,R723-R725	RN1/2PC1803F
R702-R713	RN1/2PC2203F
R732	RN1/4PC1602F
R733	RN1/4PC2000F
R721	RN1/4PC2202F
R729	RN1/4PC3302F
R731	RN1/4PC4701F
R730	RN1/4PC56R0F
R734	RT5PZ561K
R828	RN1/4PC2201F
R805	RN1/4PC2702F
R804,R842	RN1/4PC5601F
R803,R841	RN1/4PC6801F
R817	RS1MMF3R9J
R820-R822	RS1MMF470J

**Mark No. Description****Part No.**

R834	RS2MMF100J
R816	RS2MMF1R2J
R843	RS2MMF561J
R830	RS2MMF680J
R833	RS2MMF8R2J
R831	RS3LMF100J
R832	RS3LMF8R2J
Other Resistors	RD1/4PU###J

**OTHERS**

CN501,CN502 SOCKET19-P	19RK-1.25FJN
⚠ CN503-CN505 PLUG 4-P	AKM1066
CN601 5P CONNECTOR	B5P-VH
CN701 PLUG 3-P	AKM1055
J601 1P READ WIRE	ADX2492
602 HV DISTRIBUTOR	AXW1050
J502 1P LEAD WIRE	ADX2654
J604 5P HV RETURN WIRE	ADX2658
J603 HV CABLE (600)	ADY1064
J506 4P HOUSING WIRE	ADX2796
SG701 SPARK GAP	AEX1024

**• POWER SUPPLY BLOCK****SEMICONDUCTORS**

IC1001	PQ30RV21
⚠ IC901	AN8029
IC902	ON3171
Q1001,Q1002,Q1008	2SA933S
Q1003-Q1007,Q1012	2SC1740S
Q1011	2SC2705
Q1010	2SC3468
Q1009	2SD1276A
⚠ Q901	2SK1938-R
D906	11DF2
D901	D5SBA60(B)
D902,D905	MA723
D909	MTZJ24
D1001-D1006,D1008,D1011,D1012	1SS133
D1014,D1018,D1020,D1022-D1024	1SS133
D1026	1SS133
D1016	D3L60
D1015	ERB37-10
D1010	ERC91-02L
D1007,D1009	YG802C09
D1021	MTZJ12
D1013	MTZJ6.2A
D1019	MTZJ6.2B
D1017,D1025	MTZJ7.5A
D1027,D1028	S5688G

**COILS AND TRANSFORMERS**

⚠ T901	ATK1154
L901,L902	ATX1021
L1012	ATH1108
L1001	ATH1109
L1004,L1007-L1011,L1014,L1015	ATX1021

**RELAYS**

RY901,RY902	ASR1052
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**Mark No.**      **Description**      **Part No.**

### **CAPACITORS**

C901,C902 (0.01/AC250V)      ACG-501  
C910 (3300p/2kV)      ACG1008  
C906 (4700p/2kV)      ACG1028  
C903,C905 (4700p/AC250V)      ACG1064  
C904 (1500/200V)      ACH1291

C911      CCCCH151J50  
C914      CEAT101M25  
C915      CEAT1R0M50  
C909      CEAT220M50  
C908      CKCYF103Z50

C912      CQMA182J50  
C907      CQMA473J50  
C913      CQMA822J50  
C1021,C1022 (100p/2kV)      ACG-032  
C1005,C1008 (4700p/AC250V)      ACG1064

C1009,C1014,C1015      CCCSL221K2H  
C1023 (560/160V)      ACH1146  
C1004      CEANP100M35  
C1001,C1003,C1019,C1020      CEAT100M50  
C1030,C1031      CEAT101M10

C1028      CEAT1R0M50  
C1002      CEAT470M25  
C1027      CEHAT101M2E  
C1016      CEHAT332M10  
C1025      CEHAT470M2E

C1010-C1013      CEHAT472M35  
C1024      CKCYE103P2H  
C1017,C1018,C1026      CKCYF103Z50  
C1029      CQMA104J50

### **RESISTORS**

R902 (2.7)      ACN1161  
R910      RD1/2MMF2R2J  
R905      RD1/4MUF100J  
R909      RD1/4MUF681J  
R907      RS1MMF151J

R904,R906      RS1MMF333J  
R903      RS2MMF104J  
R914,R915      RS2MMFR22J  
R901      RT5PZ1R8K  
R1026      RD1/2PM154J

R1023,R1027      RN1/4PC1003F  
R1016      RN1/4PC1602F  
R1024      RN1/4PC3901F  
R1028      RN1/4PC8201F  
R1021      RS1MMF100J

R1029      RS2MMF223J  
VR1001 (1k)      VCP1151  
VR1002 (22k)      VCP1158  
Other Resistors      RD1/4PU###J

### **OTHERS**

CN1001 PLUG 6-P      KM250MA6  
J901 3P HOUSING WIRE      ADX2799  
H1001-H1006 FUSE CLIP      AKR1003  
FU1001-FU1003 FUSE (6.3A)      REK1085

**Mark No.**      **Description**      **Part No.**

### **DIGITAL CONV. ASSY** **SEMICONDUCTORS**

IC1203      24LC64(I)P  
IC1205      CD0031AM  
IC1204      CM0022AF  
IC1201      M51952BML  
IC1209      NJM4558MD

IC1202,IC1206-IC1208,IC1210,IC1211      UPC4570G2  
Q1204-Q1206      2SA1162  
Q1202,Q1203      2SC2712  
Q1201      2SJ461  
D1202-D1205      1SS226

### **COILS AND FILTERS**

F1201-F1203      ATF1194  
L1205,L1207-L1209,L1212,L1213      LFEA471J  
L1201-L1203,L1206,L1210,L1211      QTL1013

### **CAPACITORS**

C1213,C1219,C1226,C1236,C1241      CCSRCH100D50  
C1249,C1255,C1259,C1269      CCSRCH100D50  
C1274,C1275,C1280      CCSRCH100D50  
C1214,C1227,C1243,C1256,C1270      CCSRCH471J50  
C1276      CCSRCH471J50

C1204      CEANP221M10  
C1265      CEANP4R7M50  
C1203,C1205,C1211,C1217,C1221      CEAT101M16  
C1250,C1251      CEAT101M16  
C1262      CEAT2R2M50

C1207-C1209,C1222,C1225,C1231      CEAT470M10  
C1234,C1237,C1240      CEAT470M10  
C1288      CKSRYB102K50  
C1289      CKSRYB221K50  
C1202      CKSRYB222K50

C1229      CKSRYB472K50  
C1260      CKSRYB821K50  
C1201,C1206,C1210,C1212,C1216      CKSRYF103Z50  
C1218,C1220,C1223,C1224,C1230      CKSRYF103Z50  
C1232,C1233,C1235,C1238,C1239      CKSRYF103Z50

C1242,C1245-C1248,C1253,C1254      CKSRYF103Z50  
C1258,C1261,C1264,C1267,C1268      CKSRYF103Z50  
C1272,C1273,C1278,C1279      CKSRYF103Z50  
C1281-C1284,C1287      CKSRYF103Z50  
C1215,C1228,C1244,C1257,C1271      CQMA472J50

C1277      CQMA472J50  
C1252      CQMA823J50

### **RESISTORS**

R1209,R1222,R1236,R1247,R1259      RS1/16S1002F  
R1272,R1282,R1283,R1297,R1303      RS1/16S1002F  
R1310,R1314      RS1/16S1002F  
R1211,R1223,R1237,R1248,R1273      RS1/16S4302F  
R1279      RS1/16S4302F

R1284,R1290,R1298,R1304,R1311      RS1/16S5602F  
R1315      RS1/16S5602F  
Other Resistors      RS1/16S###J

### **OTHERS**

CN1201, CN1202 PLUG 15-P      AKM1206

**Mark No.** \_\_\_\_\_ **Description** \_\_\_\_\_ **Part No.** \_\_\_\_\_

## **P POWER SUPPLY ASSY**

### • STAND-BY BLOCK

### **SEMICONDUCTORS**

⚠ IC101	MIP0253SP
IC102, IC103	ON3171
Q101, Q108	2SA933S
Q102- Q107, Q109	2SC1740S
D104- D106, D108- D110	1SS133
D112- D116	1SS133
D107, D111	BR3371XJ30A
D103	D1NS4
D101	ERB06-15
D102	S1WB(A)60B

### **COILS AND FILTERS**

⚠ T101	ATK1133
L101	ATX1008

### **CAPACITORS**

C101 (0.1/275V)	ACE1156
C102 (0.01/275V)	ACE1157
C106, C110	CEAT100M50
C108, C109, C111	CEAT470M25
C105	CEHAT331M10
C103	CEHAT470M2D
C104	CFTLA104J50
C112	CKCYF103Z50

### **RESISTORS**

R102 (2.7)	ACN1161
R101	RD1/4MUF103J
R107	RN1/4PC3301F
R104	RN1/4PC3901F
R126	RT5PZ1R8K
VR101 (1k)	VCP1151
Other Resistors	RD1/4PU###J

### **OTHERS**

CN101 PLUG 2-P	AKM1127
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### • PRIMARY BLOCK

### **SEMICONDUCTORS**

⚠ IC201	AN8029
IC202	ON3171
⚠ Q201	2SK1938-R
D206	11DF2
D201	D3SBA60
D202, D205	MA723
D209	MTZJ24
⚠ VA201	TNR5V471K300

### **COILS AND FILTERS**

⚠ L201, L202	ATF1183
⚠ L205	ATF1207
L203, L206, L207	ATX1021
L208	ATX1023

### TRANSFORMERS

⚠ T201	ATK1155
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**Mark No.** \_\_\_\_\_ **Description** \_\_\_\_\_ **Part No.** \_\_\_\_\_

## **SWITCHES AND RELAYS**

RY201, RY202	ASR1052
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### **CAPACITORS**

⚠ C205, C207, C219 (0.22/275V)	ACE1155
C217, C218 (0.01F/AC250V)	ACG-501
C206, C208 (3300pF)	ACG1008
C204 (4700pF/AC250V)	ACG1064
C201 (820/200V)	ACH1148
C212	CCCCH121J50
C215	CEHAT101M25
C216	CEHAT1ROM50
C211	CEHAT220M50
C210	CKCYF103Z50
C213	CQMA182J50
C209	CQMA473J50
C214	CQMA822J50

### **RESISTORS**

R201, R204 (2.2M, 1/2W)	RCN1080
R211	RD1/2MMF100J
R205	RD1/4MUF100J
R210	RD1/4MUF681J
R207	RS1MMF151J
R203, R206	RS1MMF333J
R202	RS2MMF104J
R214, R215	RS2MMFR47J
Other Resistors	RD1/4PU###J

### **OTHERS**

⚠ FU201 FUSE (10A)	AEK1069
CN201, CN202 PLUG 2-P	AKM1156
H201, H202 FUSE HOLDER	AKR1007
⚠ P201 SURGE ABSORBER	DSS-302M-S00B
SCREW	PMB30P100FMC
SCREW	PMZ30P100FZK

### • SECONDARY BLOCK **SEMICONDUCTORS**

IC301	NJM7805FA
Q302, Q303	2SA933S
Q301, Q304	2SC1740S
D309, D310	11DF2
D302, D304, D308, D311, D312	1SS133
D314, D317- D320	1SS133
D313	D3L60
D307	ERC91-02L
D306	MTZJ2.7A
D315	MTZJ5.1A
D301, D303	YG802C06R
D305	YG911S2R

### **COILS AND FILTERS**

L305, L314, L316	ATH1107
L301- L303, L307, L308, L311	ATH1108
L319, L322	ATH1108
L320	ATH1109
L306	ATX1008
L304, L309, L310, L312, L318	ATX1021

## Mark No. Description Part No.

### CAPACITORS

A C302 (4700pF/AC250V)  
C317, C318  
C303, C307, C310, C314, C321  
C313, C325, C327, C328  
C330

ACG1064  
CCCSL101K2H  
CCCSL221K2H  
CEAT100M50  
CEAT101M10

C323  
C319  
C306, C312  
C320, C331  
C322

CEAT1R0M50  
CEHAT100M2A  
CEHAT222M10  
CEHAT222M16  
CEHAT332M50

C315  
C304, C305, C308, C309  
C311  
C316  
C326, C329, C332

CEHAT471M16  
CEHAT682M10  
CEHAT682M16  
CFTLA105J50  
CKCYF103Z50

C324

CQMA104J50

### RESISTORS

R306, R320  
VR301 (1k)  
Other Resistors

RS2MMF272J  
VCP1151  
RD1/4PU###J

### OTHERS

⚠ J305 1P LEAD WIRE  
H301- H308 FUSE CLIP  
CN301 PLUG 8-P  
CN302, CN303 PLUG 19-P  
SCREW

ADX2795  
AKR1003  
KM250MA8  
19P-250K-1.25FJNA  
PMZ30P100FZK

⚠ FU301- FU304 FUSE (4A)

REK1082

### • CONVERGENCE BLOCK SEMICONDUCTORS

D IC401, IC402  
Q401, Q403  
Q405  
Q402, Q404  
D402

STK392-180  
2SA933S  
2SC1740S  
2SC2878  
1SS133

D403- D414

S5688G

### COILS AND FILTERS

L401, L402  
L403, L404  
L410

ATH1107  
ATH1108  
ATH1109

### CAPACITORS

C416, C418, C420, C424, C426  
C428  
C433, C435  
C403, C409  
C413, C414, C421, C422

CCCSL220J50  
CCCSL220J50  
CEAT331M6R3  
CEHAT472M35  
CKCYB331K50

C429, C430  
C432  
C415, C417, C419, C423, C425  
C427  
C401, C402, C404- C408

CKCYB331K50  
CKCYB332K50  
CKCYB681K50  
CKCYB681K50  
CKCYF103Z50

F C410- C412, C434, C436

CKCYF103Z50

### RESISTORS

R431, R432, R438, R440, R446

RS2MMF121J

## Mark No. Description Part No.

R448  
R415, R423, R433, R435, R441  
R443  
R413, R414, R437, R439, R445

RS2MMF121J  
RS2MMF1R5J  
RS2MMF1R5J  
RS2MMF221J

R447  
R449, R450  
Other Resistors

RS2MMF221J  
RS3LMFR47J  
RD1/4PU###J

### OTHERS

CN405, CN406 SOCKET 15-P  
CN402 4P TOP POST  
CN403 4P TOP POST  
CN401 4P TOP POST  
SCREW

AKP1222  
B4B-EH  
B4B-EH-K  
B4B-EH-R  
BBZ30P080FCU

CN404, CN407-CN409 PLUG 19-P  
CN410 PLUG 4-P  
SCREW

19P-250K-1.25FJNA  
KM250MA4  
PMB30P160FZK

### • SW BLOCK SEMICONDUCTORS

Q758  
Q751, Q757, Q760, Q762  
Q752, Q755, Q756, Q761, Q763  
Q759  
D751, D752, D754, D755

2SA1535  
2SA720A  
2SC1318A  
2SC3944  
S5688G

### COILS AND FILTERS

L751- L754, L757  
L755, L756

ATH1109  
ATX1021

### CAPACITORS

C756, C771  
C761  
C751  
C760, C764  
C767

CEAT101M25  
CEAT1R0M50  
CEAT470M50  
CEHAT220M2C  
CEHAT3R3M2C

C759, C765, C766  
C769  
C752, C757, C772  
C768  
C758

CKCYE103P2H  
CKCYF103Z50  
CKCYF473Z50  
CQMA472J50  
CQMA472K2E

### RESISTORS

R766  
R767  
R769, R776  
R757, R758  
R753

RD1/2MMF100J  
RD1/2MMF152J  
RD1/2PM2R2J  
RD1/4MUF100J  
RD1/4MUF101J

R768, R781  
R752, R764  
R770, R775  
R774  
Other Resistors

RD1/4MUF560J  
RS1MMF472J  
RS2MMF271J  
RS3LMF391J  
RD1/4PU###J

### OTHERS

CN751 PLUG 9-P  
SCREW

KM250MA9  
752PMZ30P100FZK

Mark No.	Description	Part No.
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• AUDIO POWER BLOCK		
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<b>SEMICONDUCTORS</b>		
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IC1101	LA4282
Q1108	2SA933S
Q1101, Q1109	2SC1740S
Q1104, Q1107	2SC2878
D1101-D1107	1SS133

<b>CAPACITORS</b>		
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C1111	CEAT102M50
C1108, C1115	CEAT1R0M50
C1104, C1106	CEAT2R2M50
C1103, C1107	CEAT330M50
C1119	CEAT470M50
C1114, C1117	CEHAT102M35
C1105	CEHAT221M25
C1113, C1118	CFTLA104J50
C1110, C1116	CKCYB102K50
C1109, C1112	CKCYF103Z50

<b>RESISTORS</b>		
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R1118, R1127	RD1/2PM152J
R1104	RD1/2PM561J
R1117, R1126	RD1/4MUF2R2J
Other Resistors	RD1/4PU###J

<b>OTHERS</b>		
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ISOLATION SHEET	AEB1359
PLATE SPRING	ANG1569
SCREW	BBZ30P080FCU
CN1101 PLUG 4-P	KM250MA4R



<b>POWER SW ASSY</b>		
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<b>SWITCHES</b>		
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S5291	ASG1084
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<b>OYHERS</b>		
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CN5291 PLUG 2-P	AKM1127
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